E v o l D i r

May 1, 2023

M o n t h i n R e v i e w

Foreword

This listing is intended to aid researchers in population genetics and evolution. To add your name to the directory listing, to change anything regarding this listing or to complain please send me mail at Golding@McMaster.CA.

Listing in this directory is neither limited nor censored and is solely to help scientists reach other members in the same field and to serve as a means of communication. Please do not add to the junk e-mail unless necessary. The nature of the messages should be "bulletin board" in nature, if there is a "discussion" style topic that you would like to post please send it to the USENET discussion groups.

Instructions for the EvolDir are listed at the end of this message.

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Conferences

ArizonaStateU SMBE MechanismsCellularEvol Nov8-11

The registration link is:

https://na.eventscloud.com/ereg/-newreg.php?eventid=746305&eb=&ebs=*/-encrypted_id/* ***

“The key to every biological problem must finally be sought in the cell, for every living organism is, or at some time has been, a cell.” - E.B. Wilson

Hello, You are cordially invited to register for theSMBE Satellite Meeting on Mechanisms of Cellular Evolution.This four-day event is being organized by the Biology Integration Institute for Mechanisms of Cellular Evolution at Arizona State University and is in collaboration with theNSF BII for Mechanisms of Cellular Evolution’s Annual Symposium.

The event is scheduled to take place from November 8-11, 2023, in Tempe, AZ and is the second in a series of annual events focused on the emerging interdisciplinary field of evolutionary cell biology (ECB). This field combines evolutionary biology and cell biology with other related disciplines, including biochemistry, biophysics, population genetics, molecular biology, and mathematics. The motivation behind this meeting is the simple point that the cell, organelles, and their contents define the natural settings within which genes, genomes, proteins, and other molecular features evolve. It follows that a stronger focus on the molecular features inside of cells and the constraints under which they function will lead to an improved understanding of evolutionary processes. Remarkably, despite well-established fields of molecular evolution, genome evolution, and evolutionary developmental biology, we still have no recognizable field of ECB. Our efforts with this symposium seek to change that.

This symposium aims to bring together leading researchers and experts from diverse scientific fields to discuss current advances and future directions in ECB, and to provide opportunities for interdisciplinary discussions, knowledge sharing, and collaboration.

This year, our meeting will incorporate several broad themes within ECB.

Keep reading to learn more about this event or register today!

About theEvent

The following list includes the identified themes and their respective speakers:

Theme 1: The origin and diversification of macromolecular structures

Session A

Protein structural biology: evolution of simplicity vs. complexity Speakers: Georg Hochberg (Max Planck Institute for Terrestrial Microbiology, Germany) Christian Landry (Laval University, Canada) short talks selected from abstracts

Session B

Macromolecular structures in cell biology Speakers: Lillian Fritz-Laylin (University of Massachusetts Amherst, USA) Sonja-Verena Albers (University of Freiburg, Germany) Kazuo Inaba (University of Tsukuba, Japan) short talks selected from abstracts

Theme 2: Energetic costs and constraints of making a cell

Session A

Cell size constraints and growth laws Speakers: Sri Iyer Biswas (Purdue University, USA) Suckjoon Jun (University of California San Diego, USA) short talks selected from abstracts

Session B

Metabolic networks underlying energy acquisition Speakers: Anja Spang (Royal Netherlands Institute for Sea Research, The Netherlands) Shelley Copley (University of Colorado Boulder, USA) short talks selected from abstracts

Theme 3: Precision of information transmission

Session A

Gene regulatory network rewiring Speakers: Alan Moses (University of Toronto, Canada) Sandy Johnson (University of California San Francisco, USA) short talks selected from abstracts

Session B

Gene expression heterogeneity, noise, and errors Speakers: Audrey Gasch (University of Wisconsin Madison, USA) short talks selected from abstracts

Abstracts We will be soliciting for abstracts during the event registration process for both poster presentations and selected talks. The deadline for submission will be June 2, 2023 @11:59pm Arizona time. Responses to abstracts will be sent out no later than June 30, 2023.

Key Dates April 17, 2023 Event Registration OPENS Call for abstract submissions OPENS June 2, 2023 Call for abstract submissions CLOSES October 30, 2023 Registration CLOSES Contact Info For abstract or symposium related questions, contact the Program Manager, Josh Hoskinson, at josh.hoskinson@asu.edu.

Register Now

Joshua S. Hoskinson, M.S., M.A.

Program Manager, Biological Integration Institute

Biodesign Center for Mechanisms of Evolution

Biodesign Institute, Arizona State University

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email:josh.hoskinson@asu.edu

Pronouns: he/him/his

ASU #1 in the U.S. for innovation

U.S. News & World Report

Arizona State University acknowledges, with respect, that its physical locations are within the ancestral homelands of those Native American tribes that have sustained connections to its lands and waters since time immemorial, including the Akimel O'odham (Pima), Pee Posh (Maricopa),

— / —

BryantU EcolEvolGenomics Jul30-Aug4 AbstDeadline

Dear all,

Submission deadline for short talk presentations at the 2023 Gordon Research Conference on Ecological and Evolutionary Genomics (July 30 - August 4 2023) is closing soon on April 23. Don't miss out!

Full application deadline is July 2. Please note that this conference has a limited capacity of 200 attendants, and applications are handled on the first-come-first-serve basis.

Confirmed speakers: Christian Sch?tterer, Megan Frederickson, Hopi Hoekstra, Arnaud Martin, Paul Magwene, Moises Exposito-Alonso, David Enard, Julia Saltz, A. Murat Eren, Priya Moorjani, Dmitri Petrov, Kirsten Bomblies, Rachel Meyer, Aude Bernheim, Tim Sackton, Ines Drinnenberg, Alexander Suh, Adam Siepel, Erin Molloy, Andrew Kern, Olivia Harringmeyer and Ioannis Sarropoulos.

Detailed program is available on the website: https://www.grc.org/ecological-and-evolutionary-genomics-conference/2023/ The GRC conference is preceded by a Gordon Research Seminar on July 29-30, providing a unique forum for doctoral and post-doctoral

researchers to present their work and build collaborative relationships with their peers.

We are looking forward to seeing you in Rhode Island this summer!

Sarah Kocher and Camille Berthelot Co-chairs of the 2023 Gordon Research Conference on Ecological and Evolutionary Genomics

Camille Berthelot Group Leader - Comparative Functional Genomics Institut Pasteur - CNRS UMR 3525 - INSERM UA12 25-28 rue du Docteur Roux, 75015 Paris, France e-mail: camille.berthelot@pasteur.fr

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Cork Ireland MicrobialEvolution Aug24

2nd Meeting for Microbial Evolution in Ireland (MENI)

Date: Aug 24th 2023

Location: UCC Aula Max, Co Cork, Ireland.

Details:

This event is a free one-day focus meeting for Evolutionary Microbiology in Ireland, taking place on August 24th 2023 at Aula Max, UCC.

The goal of this focus meeting is to bring together evolutionary biologists, ecologists and microbiologists from Ireland and abroad to host our 2nd Meeting for Microbial Evolution Research in Ireland (MENI).

As well as our keynote speakers, we are inviting attendees to submit an abstract for a short talk (10 minutes) or poster presentation.

We are inviting submissions that cover all aspects of fundamental and applied microbial evolution research from environmental to clinical e.g. molecular mechanisms of evolution, experimental evolution, directed laboratory evolution, phylogenetics, pathogen evolution, antimicrobial resistance evolution etc.

The meeting will open at 10.00 with coffee reception, this will be followed by the first set of talks to start at 10.30. Lunch will be provided.

KEYNOTE SPEAKERS

Prof Geraldine Butler, University College Dublin

Prof Jennifer Mahony, APC Microbiome Ireland, University College Cork

Prof James McInereny , University of Nottingham, UK

Prof Andrey Shkoporov, APC Microbiome Ireland, University College Cork

COST

FREE! Lunch/ Tea/Coffee will be provided.

REGISTRATION

Sign up for the event here: https://forms.gle/-CcYKhuMWvE9MW2mE9 Note, you must register via this google form to attend!

Siobhan O'Brien <Siobhan.O-Brien@tcd.ie>

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Corsica MCEB Jun12-16

Dear colleagues,

We still have a few slots available to attend MCEB 2023, to be held in Corsica, 12-16 June 2023.

If you wish to attend the conference without presenting your work (though we can also accommodate for a few extra posters), please send me (guindon@lirmm.fr) and Olivier Gascuel (olivier.gascuel@mnhn.fr) an email with your name, affiliation and a brief description of your research (one or two sentences shall suffice). We will respond by providing you with a link to the registration website.

Best regards,

- The MCEB Scientific Committee -

Stephane Guindon <stephane.guindon@lirmm.fr>

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Irvine California EvolutionaryMedicine Aug14-17

Abstract submission closes April 30 for the Eighth Annual Meeting of the International Society for Evolution, Medicine, and Public Health https://isemph.org/-ISEMPH-2023/ The ProgramCommittee@evmed.org welcomes suggestions for symposia, discussions, debates, and creative sessions of all kinds. Send them a note!

The meeting will be in-person at the beautiful Arnold and Mabel Beckman Center of the U.S. National Academies of Sciences and Engineering in Irvine, California, August 14-17, 2023. Students, researchers, clinicians, teachers and others are all welcome to join this opportunity to hear the latest advances from renowned scientists, to present their research, to attend workshops and discussions, to renew old friendships and make new ones, and to enjoy all that Southern California has to offer!

Register now to reserve your place and get the lowest rates. If you change your mind, registration fees are refundable until two weeks before the meeting. If you are an ISEMPH member, use your email address to sign in at https://ISEMPH.org. If you have forgotten your password or never had one, click "Forgot Password." If you are not a member, you may want to join ISEMPH before registering for the meeting to get the substantial member discount. Society membership fees are discounted 20% until March 15, 2023 if you use the code "ISEMPH2023".

Meeting overview https://isemph.org/ISEMPH-2023/ Abstract submissions https://isemph.org/-ISEMPH-2023-Abstract-submission The program https://isemph.org/ISEMPH-2023-Program Travel and lodging https://isemph.org/ISEMPH-2023-Travel-and-Lodging Meeting registration https://isemph.org/-ISEMPH-2023-Registration Questions are welcome.

HostingCommittee@evmed.org ProgramCommittee@evmed.org Manager@evmed.org

nesse@umich.edu

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Istanbul EcolEvolutionaryBiology Jul17-19

This is a reminder of the Ecology and Evolutionary Biology Symposium in Turkey (EEBST), that will happen on 17-19 July 2023 at Istanbul University, Istanbul.

EEBST'23 will be the ninth in a series of international symposia organized annually by the Ecology and Evolutionary Biology Society of Turkey.

This year's keynote speakers will be Sarah Knowles (University of Oxford), Alexandros Stamatakis (Heidelberg Institute for Theoretical Studies), Axel Meyer (University of Konstanz).

Also, there will be two special special sessions on "emerging themes in eco-evo-devo" and "paleobiological and paleoanthropological studies"

We are pleased to invite oral and poster presentations in all areas of Ecology and Evolutionary Biology. Registration and abstract submissions are now open and the deadline for abstract submission is 20 April, 2023.

For further information please visit https://-eebst.ekoevo.org/ . We look forward to seeing you in Istanbul.

Vahap Eldem On behalf of the EEBST2023 Organizing Committee

Efe Sezgin President, Ecology and Evolutionary Biology Society of Turkey

Efe Sezgin <efeszgn0@gmail.com>

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Leipzig RapidEvolution Sep11-16

Dear colleagues,

the 52nd annual meeting of the ecological society of Germany, Austria and Switzerland will be held in Leipzig from the 112th to the 16th of September 2023.

Registration and abstract submission are currently open.

We would like to particularly draw your attention to

session 28: Rapid evolution and Transgenerational Plasticity, co-organized by Bojana Stojanova (University of Ostrava) and JFN Scheepens (Goï¿½the University of Frankfurt).

feel free to contact me at bojana.stojanova@osu.cz for additional information about this session.

Best, *Bojana*

Bojana S <bojana.stojanova@gmail.com>

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Online ESEB STN Speciation Apr11

Dear colleagues,

The next instalment of the online seminar series organised by the ESEB-funded STN network ≪ Integration Of Speciation research ≫ ([https://speciation-network.pages.ist.ac.at/]) will be held on 11 April 2023, 9 am CET.

The upcoming session addresses the topic of "Coupling of RI barriers - the role of chromosomal inversions in the formation of reproductive barriers". We welcome speakers Claire Mérot (Université Rennes, France) and Kohta Yoshida (Max Planck Institute Tübingen, Germany).

The session will last 1.5 hours, with the first hour dedicated to talks from our speakers followed by questions. The last half-an-hour is dedicated to a more general discussion.

To attend the session live, please use the following link: https://gu-se.zoom.us/j/66466007784 Talks (but not the discussion session) are recorded and made available here: https://www.youtube.com/channel/-UClEkDdE_5sDw70SQq78DIAA . The IOS network aims to promote scientific integration and also integration of the community. A main objective on this front is to foster diversity and inclusion across the field. The seminar series and subsequent discussion is open to everyone, from students to established researchers and non-scientists alike. In order to maximise the geographic diversity of attendees, we will alternate between two time slots every other month: 5 pm CET and 9 am CET. Please help us to circulate this email to anyone who may be interested, especially those in countries that are typically underrepresented in scientific discourse.

The programme of the seminar series is announced by email, on Twitter (@Speciation_net) and on the IOS network website. People who wish to automatically receive the programme and other news from the IOS network can sign up to the network mailing list from the IOS website.

We look forward to seeing you there!

The STN IOS organising committee:

Jonna Kulmuni (chair), Chris Cooney, Sean Stankowski, Carole Smadja (co-chairs), Sonal Singhal, Liz Scordato, Joana Meier, Richard Merrill, Konrad Lohse, Nick Barton and Roger Butlin

NERC Research Fellow School of Biosciences University of Sheffield www.cooneylab.co.uk Chris Cooney <c.cooney@sheffield.ac.uk>

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Online SalmonMicrobialGenome Apr19

Hi all,

The next seminar of the CIGENE Spring series takes place next Wednesday, 19th April, 12:00-12:50 (Oslo time). See details below.

Speaker: Arturo Vera-Ponce de Leï¿½n, Senior Engineer, NMBU

Title: The Salmon Microbial Genome Atlas (SMGA) enables novel insights into bacteria-host interactions via functional mapping

Abstract: The essential role of the gut microbiota for host health and nutrition is well established for many terrestrial animals, although its importance for fish and particularly Atlantic salmon is unclear. Here, we present the Salmon Microbial Genome Atlas (SMGA) originating from wild and farmed fish both in fresh and sea water, and consisting of 211 high-quality bacterial genomes, recovered by cultivation (n1), gut metagenomics (nw) and cell sorting (n=3). Bacterial genomes were taxonomically assigned into 16 different orders, including 32 distinctive genera and 31 potentially novel species. Testing the resource applicability of the SMGA demonstrated in vivo characterization of key populations in the salmon gut, with their ability to degrade diet-derived fibers and release vitamins and other exo-metabolites with known beneficial effects being validated via in vitro

cultivation and metabolomics. Together, the SMGA facilitates high resolution functional insight into salmon gut microbiota with showcased application in a salmon nutrition context.

Zoom link: https://nmbu.zoom.us/j/67064421833 An overview of the spring series timetable is available here: https://cigene.no/cigene-seminar-series/ Hope to see you there.

Marie Marie SAITOU, Ph.D. Tenure-Track Principal Investigator, Centre of Integrative Genetics (CIGENE), Faculty of Biosciences, Norwegian University of Life Sciences https://sites.google.com/view/saitou-lab Marie Saito <marie.saitou@nmbu.no>

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Romania FutureResilientForests Sep12-15

EvolTree Conference 2023: Registration open!

The registration and abstract submission for the Second EvolTree Conference "Resilient forests for the future", taking place 12-15 September 2023 in Brasov, Romania, is now open.

The deadlines for registration are: - May 31: Abstract submission closes - July 31: Registration closes for on-site participation - August 31: Registration closes for online participation

For more information: Second EVOLTREE Conference 2023 RESILIENT FORESTS FOR THE FUTURE | Evoltree

Thanks and kind regards.

EVOLTREE

Christian Rellstab <christian.rellstab@wsl.ch>

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Roscoff HostParasiteCoevolution Oct16-20

Dear Colleagues, Registration is now open for our upcoming Jacques Monod Conference on host-parasite coevolution, which will be held in lovely Roscoff, Brittany, France.

A MATTER OF SCALE: WITHIN-HOST AND BETWEEN-HOST PROCESSES DRIVING COEVOLUTION WITH PARASITES 16-20 October 2023

Further details and registration are available via this link: https://cjm4-2023.sciencesconf.org/ We hope to see you there! Thanks, and do let us know of any questions.

All the best, Oliver Kaltz & Andrea Graham

Andrea L. Graham Professor of Ecology & Evolutionary Biology Affiliated Faculty, Center for Health and Well-Being Affiliated Faculty, High Meadows Environmental Institute Princeton University Princeton, NJ 08544 USA

External Faculty, Santa Fe Institute Santa Fe, NM 87501

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Roscoff SexUnfolded Sep11-15 RegistrationDeadline

Dear Colleagues,

The registration deadline (May 4th) is approaching for the upcoming Jacques Monod Conference: SEX UNFOLDED : SEX, ASEX, SEXES September 11-15, 2023 in Roscoff (Brittany), France.

Only one week left to register!

Details and registration here: https://cjm3-2023.sciencesconf.org/ We hope to see you there,

Thomas Lenormand, Karine Van Doninck, Denis Roze

Thomas LENORMAND <thomas.lenormand@cefe.cnrs.fr>

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Seattle StatGeneticsSymp Course Jul14-16

The Summer Institute in Statistical Genetics returns to an in-person format at the University of Washington, Seattle, July 10-28, 2023. There will be 18 half-week courses covering many aspects of statistical genetics. Details and online registration available at si.biostat.washington.edu/institutes/sisg

The Statistical and Quantitative Genetics Symposium will be held at the University of Washington, Seattle, July 14-16, 2023. Contributed posters/papers are welcome. Program information and online registration available at biostat.washington.edu/events/statgensymposium2023

Best wishes

Bruce bsweir@uw.edu

Bruce S Weir <bsweir@uw.edu>

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Singapore AsiaEvo EvolutionaryBiology Dec16-18

The Third AsiaEvo Conference on Evolutionary Biology 16-18December 2023, Singapore

We are pleased to invite you to the 3rd AsiaEvo Conference, set to take place at the National University of Singapore, Singapore, 16-18 December 2023.

The AsiaEvo conference is a biennial event that seeks to promote evolutionary research by facilitating international collaboration, research, and education on evolutionary biology in Asia and beyond.

At a time when many in the Northern Hemisphere are already shoveling snow, this exciting venue features warm tropical weather, tall skyscrapers, rich rainforests, and fantastic food. Singapore is also centrally located in Southeast Asia with inexpensive short flights to places like Bali, Phuket, and Angkor Wat.

We are open to registration and proposals for symposia. For more information, please navigate to: https://-phylorf.org Some target dates:

Symposium Proposal Deadline has been extended to: 31 April 2023 Abstract Submission Deadline: 1September 2023 Early Paid Registration Closes: 15 October 2023

Note that Symposia organizers can invite speakers for their symposium, but all speakers (and organizers) will need to cover their own travel costs(until sufficient sponsorships are raised, which we are trying to do).

Regards, Antónia Monteiro and Li Daiqin

Antonia Monteiro <antonia.monteiro@nus.edu.sg>

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Switzerland PopGenomicsEctomycorrhizalFungi Sep5-6

Title: Symposium.Ectomycoadapt.Switzerland.5-6.Sept.2023

Dear colleagues,

We are pleased to announce the forthcoming Symposium on Population and Landscape Genomics of Ectomycorrhizal Fungi. This two-day symposium will be held at WSL on 5-6 September 2023. We offer a hybrid event for those who are unable to join us in person at WSL.

Registration is open here https://conf.wsl.ch/-EctoMycoAdapt_2023/ More information is available on the symposium website: https://-www.wsl.ch/en/about-wsl/in-dialogue-with-wsl/-details/symposium-on-population-and-landscape-genomics-of-ectomycorrhizal-fungi.html Please share this announcement with anyone who may be interested. We welcome contributions that apply innovative approaches and consider the relevance of their research to the topic of the symposium. Please do not hesitate to contact us.

We look forward to seeing you at WSL and to discussing this emerging research field.

Benjamin Dauphin Martina Peter

ectomycoadapt@wsl.ch

Benjamin Dauphin Swiss Federal Research Institute WSL Research Unit Biodiversity and Conservation Biology Ecological Genetics group Zï¿½rcherstrasse 111 CH-8903 Birmensdorf Switzerland

Benjamin Dauphin <benjamin.dauphin@wsl.ch>

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UBath UK EvoKE EvolNetworking Jul3-5

Dear Colleagues,

We are pleased to announce that the EvoKE 2023 meeting at the University of Bath, UK, from 3 - 5 July 2023, is now OPEN FOR REGISTRATION.

Register at EvoKE 2023 and: - Network with international and interdisciplinary partners to develop and boost your evolution education and outreach projects

- Develop your skills in public engagementin science, evolution education and outreach

- Share and discuss your experiences in evolution education and outreach and get inspired by our speakers and other participants

- Contribute to further develop EvoKE and to shape its future directions and lines of action

EvoKE 2023 will bring together researchers, educators, science communicators, journalists, policymakers, artists and anyperson interested in fostering networking around evolution literacy and strengthening its impacts on society.

EvoKE 2023 inspiring plenary speakers are:

Dr Adam Rutherford - Geneticist, popular science author and radio presenter. UCL, UK.

Dr Louise Mead - Education Director for the BEACON Center for the Study of Evolution in Action, USA.

Dr Joana Moscoso - Co-founder and Director ofNative Scientists and Co-founder of Chaperone.

Jonathan Tweet - Author of “Grandmother Fish”, the first book to teach evolution to pre-schoolers and creator of twoevolution-themed card games.

Develop your skills and network with others through our workshops that are detailed at: https://evokeproject.org/workshops-2/ In addition to our speakers and workshops there will be poster sessions and the EvoKE General Assembly.

Find more information about EvoKE 2023 at: https://evokeproject.org/ Register for attending at: https://evokeproject.org/registration-2/ If you have any questions, contact us at: EvoKEBath2023@gmail.com

Dr Alex C. Jeffries, FHEA, Senior Lecturer

Department of Life Sciences University of Bath

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Alex Jeffries <bssacj@bath.ac.uk>

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UMichigan MidwestPopgen Aug4-5

Dear Colleagues,

The field of population genetics has a remarkable tradition of being a tight-knit and nurturing community. In order to better foster that sense of community for popgen groups in the Midwest, we are holding the 8th annual Midwest PopGen conference.

This year, Midwest PopGen will be held at the University of Michigan from August 4th-5th. The meeting will begin Friday at noon and continue to Saturday evening with a dinner on Friday evening.

Approximately fifteen 25-minute talks will be selected from submitted abstracts, and there will be a poster session. The meeting will again be trainee-oriented, so students and postdocs are especially encouraged to present their work. There will be a modest prize for best poster and best talk by a student and postdoc.

If you do plan to attend, please RSVP by June 1st by registering here (https://forms.gle/cbnECsKBwAvK341T6). If you are interested in giving a talk, you will be notified if your abstract has been selected by July 1st. Accommodation advice and other information is available here: https://bit.ly/3LriUOk . We hope you can make it and that we can continue this meeting for the population geneticists in our region!

Gideon Bradburd, Roberto Marquez, Mo Siddiq, Jonathan Terhorst, & Xinjun Zhang University of Michigan

Gideon Bradburd (*he/him*) Dept. of Ecology & Evolutionary Biology University of Michigan genescape.org

bradburd@umich.edu

Wageningen Netherlands PhDPostDocDay May15

Dear Evolutionary Biology PhDs and PostDocs, We are excited to invite you to join the NLSEB PhD & PostDoc day, organized by the junior board of the Netherlands Society for Evolutionary Biology (NLSEB), on the 15th of May! To register, please fill out this form before April 30th 2023:

https://docs.google.com/forms/d/e/-1FAIpQLSftIz7bx6fi7Yn1tXcXesnXZi1C5IPSOqa_HGv6aR_HDXpdXg/-viewform The PhD and PostDoc day will take place on the Wageningen Campus in the Radix building. The program of the day is as follows: at 12:30, we will have lunch ready for any hungry attendees. Then, at 13:00, we will start the programme with a round of flash talks by all participants, so we can get to know each other and break the ice. This will be followed by two workshops (for the description, see below) as well as an Equality, Diversity, and Inclusion panel and then we will round off the day by having dinner together.

The following workshops will run in parallel please use the registration form to indicate which workshop you prefer to attend. As space may be limited, we may not be able to assign you to your first choice.

1.

Improv(e) your science communication (hosted by Dr. Aniek Ivens):

Do you want to hone your presentation skills? Do you want to be able to explain your science to both experts and a lay audience? Do you want to get a grip on those nerves you feel in front of an audience? And do you want to learn all this while having a lot of fun? This interactive workshop is the place for you! During the workshop, we will use techniques from improvisation theater and storytelling to improve your science communication. From lab meetings and conference talks to elevator pitches and answering that tricky question at a party (So what do you do?), these skills will come in handy every day, both in the lab and away from the bench.

The number of participants is limited to 20 people (first come first serve). For more information about the workshop and Dr Aniek Ivens visit https://www.aniek.nyc/-academic-improv . 1.

Early career small grant writing (hosted by Dr. Kelley Leung):

Grant writing is an essential skill for scientists and academics. It is necessary to ensure funding for research projects, and boosts CV visibility. However, many are unsure about how to start choosing which grants to apply for and how to write applications. A key first step is small grants. I will detail the process with a workshop to write a successful application, and will include special consideration of ethics and building collaborations.

Finally, a few practical matters:

-

All participants will be asked to prepare a brief (1 minute, 1 slide) flash talk about their own research. -

The NLSEB PhD and PostDoc day on the 15th of May is followed by the NLSEB meeting on the 16th of May. If you want to attend both, there is the option of staying overnight at the Hotel De Nieuwe Wereld in Wageningen, at the price of €72,50 for a single room or €45 per person for a shared room (excluding a €1,95 tourist tax). Breakfast is included in this. If you would like to take this option, please indicate so in the registration form. If you want to book a shared room please also inform us whether you and another attendee plan to share a room or whether you prefer that we pair you with a fellow attendee as roommate. -

The PhD and PostDoc day is free to attend (including lunch), however you will have to pay for the dinner and accommodation costs yourself if you choose to stay overnight.

If you have any questions, please feel free to contact us on the following email address: junior_board@nlseb.nl

We hope to see you at the PhD and PostDoc day!

All the best, The NLSEB junior board Jana Riederer, Malin Klein, Sam von der Dunk, Victoria Terry, Yannick Woudstra, Nicky Faber

“Riederer, J.M.” <j.m.riederer@rug.nl>

GradStudentPositions

Angers HostMicrobeInteractions

Fully-funded PhD position in Angers, France

Topic: Impact of microbial interactions on the adaptation and evolution of the phytopathogenic bacterium Xylella fastidiosa

Xylella fastidiosa is a phytopathogenic bacterium with a strong adaptive capacity, as evidenced by its genetic diversity and wide range of host plants. It specifically colonizes the xylem of plants and is transmitted by hemipteran insects that feed on xylem sap. Originally from the Americas, the bacterium is now present in several European countries due to accidental introductions of contaminated plant material. These introductions have caused the emergence of new diseases in Europe (e.g. the Olive quick decline syndrome in Italy) and no effective treatment of infected plants is currently available. This situation thus calls for a better understanding of the ecology and evolution of the pathogen in its new area of distribution. Being naturally competent, X. fastidiosa has the ability to acquire new genes by horizontal transfers. Therefore, interactions between the pathogen and the hosts microbiota could contribute to the adaptation and evolution of X. fastidiosa. Nevertheless, the potential role of bacteria colonizing the same habitats for the evolutionary dynamics of X. fastidiosa has not yet been studied.

The aim of this PhD thesis is to investigate the role of microbial interactions in the adaptation and genomic evolution of X. fastidiosa in a holistic manner. To this end, X. fastidiosa-microbiome interactions will be studied at the pathosystem level, including both the microbiome of the xylem as well as that of the insect vector's foregut. Specifically, we will investigate (i) whether infection with X. fastidiosa induces a restructuring of the microbiomes colonizing the same habitats (dysbiosis), (ii) whether different subspecies and genotypes of X. fastidiosa differ in their interaction with the host-associated microbiome, (iii) the potential impact of the xylem-associated microbiome on infection success of X. fastidiosa, and (iv) the importance of the microbiome as a potential source of new adaptive functions through horizontal transfers of genetic material to X. fastidiosa. This will be achieved using metagenomic approaches and synthetic microbial communities (SynComs). The latter will allow us to experimentally test X. fastidiosa-microbiome interactions in planta and to define antagonistic SynComs to reduce the burden of X. fastidiosa infection. Taken together, this project will greatly enhance our knowledge about the interactions between X. fastidiosa and other microorganisms colonizing the same habitats, and could ultimately contribute to the development of a biological control approach informed by the ecological interactions of this bacterium.

Start date: October 2023 The PhD position is fully funded for a period of three years with a monthly gross salary of 2044€. The project will be supervised by Marie-Agnès Jacques (marie-agnes.jacques@inrae.fr) and Jes-

sica Dittmer (jessica.dittmer@inrae.fr). The PhD candidate will work at the IRHS (Institut de Recherche en Horticulture et Semences) in Angers, France (https://-www6.angers-nantes.inrae.fr/irhs). The institute is affiliated with the French National Research Institute for Agriculture, Food and Environment (INRAE), the University of Angers and the Institut Agro, a French higher education institute in Agriculture, Food, Horticulture and Landscape Sciences.

Angers is a vibrant middle-sized city in western France, about 300 km south of Paris and close to the Atlantic Ocean. It is located just north of the Loire Valley, a UNESCO World Heritage site famous for its landscape, historic towns and castles. Angers enjoys a rich cultural life, thanks to numerous higher education institutions and museums. Moreover, the city is renowned for its specialization in the plant sector (Végépolys is Europe's leading horticultural competitiveness cluster).

Competences: The successful candidate needs to have a masters degree in biology or an equivalent diploma. We are seeking a highly motivated candidate with background in bacteriology and/or community ecology. The candidate should have a strong interest in symbiosis and multipartite interactions between different organisms (bacteria, plants and insects). He/she should have good work ethics and organisational skills to transition between different work settings (greenhouse, laboratory, bioinformatics). The candidate should have a good level of English (both spoken and written) and possibly in French.

How to apply: Please send your application to jessica.dittmer@inrae.fr with "Application PhD Xylella" in the subject line. Applications should include a CV, a motivation letter (in English or in French) and a list of attended courses and grades during the masters study programme.

Application deadline : 5th June 2023

Contact: jessica.dittmer@inrae.fr

Jessica Dittmer, PhD

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BarIlanU Israel BehaviouralEvolution

4-year PhD position at Bar Ilan University, Israel Start date between October 15, 2023 -January 15,2024 Full scholarships and tuition, including paid teaching opportunities.

While in the field, housing expenses will be covered. Applicants must have a MSc in the Life Sciences, a strong background in behavioral ecology, field experience handling wildlife, and experience with acoustic analysis. For more information, please contact Prof. Lee Koren (Lee.Koren@biu.ac.il) Please include a CV and a cover letter with field experience and interests, as well as contact information of up to three academic references.

Project description

Do social constraints generate honesty? The response to rock hyrax counter-singing Following decades of acoustic communication research, the function and meaning of animal vocalizations and their contribution to honest communication are still unresolved. Especially interesting are the changes in vocal frequencies, tempo, or syntax that take place as a result of social interactions. In birds, anurans, and humans, numerous studies have focused on vocal matching, overlapping, and shifts during social interactions (e.g., duets and counter-singing). However, whether and how these social-context-affected changes reflect the honest depiction of individual traits has remained under explored. We have been studying vocalization in the wild social rock hyrax (Procavia capensis) over the past 22 years. Male hyraxes produce complex songs that are either performed spontaneously, as solo songs or as counter-singing or chorusing interactions, induced by external events such as other male songs. The most challenging component to produce in male songs is the snort element, which is a harsh sound that only develops with age. We have previously found that in solo songs, snort acoustic characteristics are related to the singer's weight, social status, and androgen levels. In this study, we will examine whether social interactions, represented by male-male counter-singing, generate acoustic characteristics that are more related to singer traits than their solo songs. In previous playback experiments we manipulated snort numbers, length, and harshness. Through these experiments, as well as from

naturally occurring vocalizations, we found that the tendency to answer songs differed with snort parameters. However, we never monitored which hyraxes responded to the experimental songs, nor did we record the vocal responses or their honesty (i.e., relatedness to singer traits). In this study, we will explore whether playback vocal frequency, song complexity, presence of the snort element, snort harshness, individual recognition, or/and the singers' individual attributes (i.e., weight, social or resident status) affect the vocal responder's honesty. We will use acoustic analysis methods that were successfully used to analyze orca (Orcinus orca) vocalizations, including techniques for cleaning and segmenting recordings, learning underlying representations of calls, and generating artificial and realistic calls. Vocalizations will be analyzed using semi-supervised machine (deep) learning methods to first determine the underlying feature representations of the components of the songs and then to group components into clusters to automatically identify known and unknown vocalization types. Additionally, analyzed segments will be utilized to generate new songs that will be used in the playback experiments using generative adversarial neural networks. By analyzing the acoustic characteristics of the response and comparing it to the singer's solo songs, we will be able to measure the effect of social context on the honest transmission of individual traits. Vocal behavior, including frequency or complexity matching, the use of harsh elements, and overlapping, are expected to change according to both the playback and responder characteristics. Using our marked population of wild hyrax, and extensive database of natural solo songs and counter-singing events, along with playback experiments of manipulated familiar and unfamiliar hyrax songs, we will examine whether social constraints generate honesty. This study is expected to expand our understanding of the contribution of sociality to the evolution of vocal communication in nature.

Lee Koren, PhD The Goodman Faculty of Life Sciences Bar-Ilan University Ramat Gan, 5290002 Israel

Institute of Nanotechnology and Advanced Materials (Building 206) Office B-940; Lab B-935 (9th floor) Telephones: office +972-3-7384371 lab +972-3-7384372 Skype: leezik Lee.Koren@biu.ac.il https://leekoren.wixsite.com/korenlab http://-dsi.biu.ac.il/team/prof-lee-koren/ Lee Koren Lab (Facebook page) @LeeKoren2 (Twitter)

Lee Koren <Lee.Koren@biu.ac.il>

Brest UBO LEMAR France EvolutionaryEcology

We have a fully-funded 3-year PhD position in quantitative evolutionary ecology available at the laboratory of Environmental Marine Sciences (LEMAR, Brest, France), in collaboration with the Centre for Biodiversity Dynamics (CBD, Trondheim, Norway).

Title: Analysis of phenological life-history events - migration, reproduction - in kittiwakes in the context of climate change.

Supervisors: Pr. Emmanuelle Cam (LEMAR, UBO), Pr. Jane Reid (CBD, NTNU), and Dr. Paul Acker (CBD, NTNU).

Workplace: Marine Environmental Science Laboratory (LEMAR), University of Western Brittany, European Institute for Marine Studies (IUEM), Technopï¿½le Brest-Iroise - rue Dumont d'Urville - 29280 Plouzanï¿½ - France.

How to apply: Deadline is May 15th 2023. The application must be completed the website: https://theses.doctorat-bretagneloire.fr/sml/-campagne-2023 (please see folder entitled 'UMR 6539 Laboratoire des sciences de l'environnement marin (LEMAR) - BREST / 8').

Context: One of the most urgent tasks of biologists is to better understand and predict the impact of climate change on wild populations to guide effective protection of biodiversity. Shifts in the timing of annual life-history events, such as seasonal migration or reproduction, are widespread responses to climate change that have been documented across all trophic levels in a wide range of ecosystems. However, the situation remains especially ambiguous in seabirds, and still little is known about their ability to effectively track environmental change through such phenological shifts, despite this group being the most globally threatened of extinction among birds. Seabirds represent a particular challenge because they use terrestrial and marine habitats to complete their life cycle, and hence potentially experience a wide range of anthropogenic pressures affecting both environments. In this context the impact of climate change is to be understood within a larger set of environmental perturbations that may affect the fitness of individuals, i.e. their survival and breeding success, and hence population growth. Here, decreases in fitness can be

mitigated if plasticity and/or micro-evolution result in physiological or behavioral changes allowing phenological adjustment that reduce the mismatch between the phenotype and the environment. Predictions of short- and longer-term population outcomes therefore require disentangling plastic responses and micro-evolutionary responses to co-occurring perturbations, and assessing whether their combination allows net responses that are sufficient given the pace of environmental changes.

Objectives: The project aims at dissecting the processes underpinning more than four decades of phenological variation in a population of kittiwakes (Rissa tridactyla) located in Brittany (France). This will be achieved by enacting an alternative paradigm in the study of phenology. Indeed, the most recent conceptual development has promoted the idea to work on an underlying latent biological trait upon which natural selection could act, the 'propensity' (or 'liability') to express a phenological life history event (e.g. migrating, breeding) at a given date in response to environmental variation. Although corresponding statistical models have a long history of use in quantitative genetics, they are still rarely employed to study phenotypic dynamics in wild populations experiencing environmental variation. Here, these models will be integrated with capture-mark-recapture models, to devise cutting-edge 'Capture-Recapture Animal Models'. This will allow analyzing an exceptional long-term dataset from >20,000 individually marked birds followed during their entire life alongside a detailed pedigree spanning multiple generations. The main objectives will be (1) to quantify individual variation in the seasonal timing of migration and reproduction, and its relationship with environmental factors characterizing the breeding and migrating habitats; (2) to quantify the fitness consequences of these phenological events, and resulting selection; and (3) to quantify the heritable genetic basis underlying phenology.

Requirements: We are looking for a student with relevant background in quantitative ecology, ecology, and/or evolutionary biology, with enthusiasm to learn and apply advanced statistical analyses to field data. Key additional requirements are a strong academic background, good communication skills in English, enthusiasm for collaborative teamwork, and ability to undertake independent and self-motivated activity. Experience with R is an asset, and prior experience with Bayesian data analysis will be appreciated. The kittiwake monitoring project is continuing, and participation in fieldwork operations will be possible and encouraged. The candidate will have to hold a master's degree

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EstonianU Genomics eDNAsalmonidparasite

Graduate position: EstonianU.Genomics&eDNAsalmonidparasite

PhD student position on genomics and eDNA monitoring of salmonid parasite

We are seeking a highly motivated student holding a Master???s degree in Genetics, Biosciences, Molecular Biology, Ecology, or a similar field for a four-year fully funded PhD to develop and test non-invasive environmental DNA-based molecular tools to improve our understanding of the dangerous fish parasite Tetracapsuloides bryosalmonae biology and genetic structuring. The research will be carried out at the Estonian University of Life Sciences (Institute of Veterinary Medicine and Animal Sciences, Chair of Aquaculture) on the topic of ???Using environmental DNA and population genetics to understand the distribution and ecology of dangerous fish parasite and its invertebrate host???. The successful applicant will join a collaborative project under the supervision of Dr Lilian Pukk and Dr Anti Vasem??gi. The Chair of Aquaculture has a multinational team of postdocs, PhD and master students and technicians, and the applicant will have the opportunity to work extensively with other team members.

The PhD student will participate in the following research tasks: 1) Investigate, which bryozoan species are present in Estonian salmonid rivers and whether their presence co-vary with the parasite T. bryozalmonae occurrence and prevalence; 2) Investigate the role of dams and reservoirs to the spread and abundance of different freshwater bryozoan species by using eDNA method; 3) Analysing for the first time the fine-scale genetic structuring among T. bryosalmonae populations by developing high throughput targeted amplicon sequencing approach and evaluate the utility of eDNA to gather population genetic information about the parasite.

Requirements: - The PhD candidate should be highly motivated, intellectually curious and sociable; - Should have at least basic experience working in a molecular laboratory, as well as some basic bioinformatic and statistical skills; - Willing to participate in fieldwork; - Ability to work both independently and in a team; -

Must be fluent in English (written and spoken).

Following are an advantage: - Programming experience in R, UNIX, or other languages; - Preferably, the applicant???s university degree focuses on genetics, molecular biology, ecology or fish biology.

How to apply: Applications should be sent to lilian.pukk@emu.ee and include a motivation letter (with academic background, research experience, interests, and goals) and a CV and contact details of two references and a copy of your master??s degree certificate. Please use the code PhD2023 in the subject line.

Submission deadline: June 1, 2023. Starting date: September 2023. Salary: starting from 1718 EUR/month.

If you have any questions, contact Lilian Pukk (lilian.pukk@emu.ee).

Lilian Pukk <lilian.pukk@emu.ee>

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KielU Germany Five EvolBiology

Kiel University_Germany. IMPRS EvolBio

The Kiel University offers 5 PhD positions within the International Max Planck Research School (IMPRS) for Evolutionary Biology. The first 6 month are founded by a scholarship. After this a 3-year fixed-term position, 65% TV-L E13 follows. The employment is associated with a teaching obligation of four teaching hours per week.

The International Max Planck Research School for Evolutionary Biology (IMPRS EvolBio) is a joint initiative between the Max Planck Institute for Evolutionary Biology, Christian Albrechts University in Kiel, and the GEOMAR Helmholtz Center for Ocean Research. Participating groups work on a broad variety of scientific topics including molecular evolution, experimental evolution, and ecological / evolutionary genetics.

The program includes a rotation period of six months followed by a PhD project of three years. The students are mentored by their principal investigator in close collaboration with another IMPRS faculty member. Moreover, the student will be mentored by an individual thesis advisory committee. Training includes seminars, courses (including soft-skill courses), workshops, an annual retreat, opportunities to attend international meetings and visit collaborating laboratories. The language of the graduate school is English. German language courses for beginners are offered to foreign students.

Specific topics for this year's advertisement are: 1) Origin, evolution and mechanism of cholesterol metabolism by the human gut microbiome 2) Host and microbe interactions of fungi in an animal metaorganism model 3) Island evolution in mice - a window into the process of adaptation 4) The ecology and evolution of bacteria-bacteria interactions in microbial communities 5) Adaptation of the gut microbiome to changes in host lifestyle during human evolution during the last 10000 years 6) Active Zones and Synaptic Structures in Non-Neuronal Cells 7) Stops on a journey - fate and impact of microbial connectivity in the seagrass meadow 8) Sex, immunity and male pregnancy 9) The developmental and molecular bases of the evolutionary novel brooding organ in syngnathids (pipefish and seahorses)

Motivated and highly qualified candidates are welcome to apply. A Master of Science degree or a Diploma as well as a strong interest in Evolutionary Biology are prerequisites for entering the program. You will find more information about the employment requirements with the project descriptions.

The deadline for applications is May 15, 2023. The selection days will be held on June 21 and 23, 2023 from 9 a.m. to 12 p.m. as an online symposium.

The program starts on October 1, 2023 (later start date is possible).

Kiel University sees itself as a modern and cosmopolitan employer. We welcome your application regardless of your age, gender, cultural and social origin, religion, worldview, disability or sexual identity. We support gender equality. Women with equivalent suitability, qualifications and special abilities will be given preferential consideration in the selection process.

The University of Kiel is active in its support for the employment of disabled persons. For this reason, disabled persons will be given preferential treatment over other equally qualified applicants. We explicitly welcome applications from people with a migration background.

For the application procedure check the IMPRS EvolBio website HOW TO APPLY

Angela Donner <donner@evolbio.mpg.de>

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LIENSs LaRochelle France EvolAnticancerDefenses

We have a fully-funded 3-year PhD position in Evolutionary biology available at the LIENSs (La Rochelle, France).

Title: Evolution of anticancer defenses in wild animals.

Supervisors: Drs. Mathieu Giraudeau and Orsolya Vincze.

Cancer is recognized as a pathology that affects almost every member of the animal kingdom. Accurate estimates on cancer in wildlife promise extremely valuable information on oncogenic processes, as the limited research conducted on non-standard model organisms already provided tremendous insights on the natural mechanisms of cancer resistance. We proposes to use a multidisciplinary approach at the interface of oncology, physiology, cellular and evolutionary biology to characterize the prevalence of cancer in wildlife and identify the genetic, physiological and life-history predictors of the cross-species pattern of cancer susceptibility. Specifically, this project proposes to first build a new database on cancer prevalence, life history traits and physiology of hundreds of vertebrate species in order to run large-scale comparative analyses to study the variability of cancer resistance across vertebrates. Then, we propose to assess genomic tumor-suppressor mechanisms by quantifying the duplication of cancer-related genes in vertebrate species. Finally, using cell cultures from 15 species more or less resistant to cancer, we will evaluate oncogenic susceptibility and the efficacy of putative tumor-suppressive mechanisms using a number of validated in vitro assays. Our studies are well grounded, partly being based on pre-existent data or already available cell cultures and without doubt will provide the broadest and most detailed characterization of cancer in wildlife to date. We hope to unravel the cross-species diversity of cancer resistance, and highlight future avenues in the identification of efficient tumor-suppressor mechanisms.

Requirements: We are looking for a student with a relevant background in evolutionary biology, with enthusiasm to learn advanced statistical analyses (experience with R is a strong asset). The candidate will have to hold a master's degree (or an equivalent degree) at the time of enrollment in the PhD program.

How to apply: If you are interested in the job, please send me by e-mail (giraudeau.mathieu@gmail.com) a letter describing your motivation, CV, and e-mail addresses of two academic referees, by 20th of May 2023. If you have any further questions, don't hesitate to contact me.

Representative Publications and Preprints:

Vincze, O., Colchero, F., Lemaï¿½tre, J. F., Conde, D. A., Pavard, S., Bieuville, M., ... & Giraudeau, M. (2022). Cancer risk across mammals. Nature, 601(7892), 263-267.

Giraudeau, M., Sepp, T., Ujvari, B., Ewald, P. W., & Thomas, F. (2018). Human activities might influence oncogenic processes in wild animal populations. Nature Ecology & Evolution, 2(7), 1065-1070.

Vincze, O., Vï¿½gï¿½si, C. I., Pï¿½nzes, J., Szabï¿½, K., Magonyi, N. M., Czirjï¿½k, G. ï¿½., & Pap, P. L. (2022). Sexual dimorphism in immune function and oxidative physiology across birds: The role of sexual selection. Ecology Letters, 25(4), 958-970.–

Mathieu Giraudeau <giraudeau.mathieu@gmail.com>

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MaxPlanck EvolutionaryRescue

PhD position in Theoretical Evolutionary Biology (3.5 years)

Severe changes in the environment of a population can lead to maladaptation and ultimately extinction unless evolution is rapid, giving rise to genotypes that are well-adapted to the new conditions and rise in frequency. Such a scenario is termed "evolutionary rescue". Whether populations confronted with environmental change survive or go extinct is a key question in evolutionary biology. Which populations have the greatest chances to survive? How do genetic and environmental factors interact to slow down or to speed up adaptation? The extent of human-induced environmental change endangering biodiversity makes answering these questions a pressing need. An answer is equally important in medicine and in agriculture where we aim to eradicate/control the pathogens or pests and to inhibit the evolution of resistance.

Besides laboratory experiments and field studies, mathematical modeling greatly contributes to our understand-

ing of rapid adaptation to environmental change. The aim of this project is to develop mathematical models for the eco-evolutionary dynamics of evolutionary rescue. The precise project will be developed together with the student according to their interests. On the mathematical side, the project involves stochastic modeling in combination with deterministic approaches, complemented by computer simulations.

The ideal student is interested in applying mathematical modeling to gain insights into biological problems and is enthusiastic about math as well as about biology. The student will learn how to set up and analyse theoretical models to describe biological processes. Applicants should have a background in mathematics, physics, biology, computer science or a related field. Good quantitative skills are essential. Prior experience in mathematical modeling and knowledge of a programming language (C, C++, Java, Python, Julia...) is an advantage.

The position is part of a DFG-funded Research Training Group (RTG) on "Translational Evolutionary Research". The program brings together 14 research groups from several institutions to study how insights from evolutionary biology can be applied to solve problems in medicine, food production, and wildlife conservation.

Working environment

The student will be co-supervised by Hildegard Uecker and Arne Traulsen and will join the Research group Stochastic Evolutionary Dynamics at the Max Planck Institute for Evolutionary Biology. In the group, we focus on exploring the role of stochasticity in evolution. In the context of resistance evolution, we closely collaborate with experimental microbiologists at the University of Kiel. The group is part of the Department of Evolutionary Theory. The student will hence be part of a larger community of researchers working at the intersection between mathematics and biology with many opportunities to take part in journal clubs, reading groups etc.

The Max Planck Institute is a lively institute with three departments (Evolutionary Theory, Microbial Population Biology, Evolutionary Genetics) and several additional research groups. It hosts several workshops per year and continuously welcomes international short-term and long-term visitors, creating a stimulating and positive research environment. We maintain close interactions with Kiel University and belong to the Kiel Evolution Center. The area is a center of evolutionary biology in Germany.

Plön

Plön is a small town, embedded into a beautiful landscape with innumerous lakes and close to the Baltic Sea. The area provides ample opportunity for leisure activities such as swimming, canoeing, or biking in a stunning environment. At the same time, the cities of Kiel and Lübeck (245,000 and 215,000 inhabitants, respectively) are only half an hour train ride away. Hamburg (Germany's second largest city) can be reached within 1.5h by train.

Application

Interested candidates should send their application (motivation letter, CV, copies of certificates, contact details of two references) by email to uecker@evolbio.mpg.de. Please use the code PhD2023 in the subject line.

The Max Planck Society strives for gender and diversity equality. We welcome applications from all backgrounds. The Max Planck Society is committed to employing more disabled individuals and especially encourages them to apply. The Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

For further questions, please get in contact with Dr. Hildegard Uecker. Application deadline is May 10, 2023. However, the position will remain open until filled by a qualified candidate.

Contact: Dr. Hildegard Uecker Research group Stochastic Evolutionary Dynamics Department of Evolutionary Theory Max Planck Institute for Evolutionary Biology Website: web.evolbio.mpg.de/stochdyn

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MNH Stuttgart OlfactoryConvergentEvolution

Dear all,

The State Museum of Natural History in Stuttgart (Germany) offers a funded PhD (3 years) to investigate the potential convergent evolution of the olfactory system of subterranean reptiles and amphibians. The application deadline is May 18th, 2023. More information in the link below: *https://quentinmartinez.fr/funded-phd-

position/ Feel free to forward this message to people who might be interested. Thank you.

Best regards, Quentin Martinez

Quentin Martinez

Post-doc researcher and Wildlife Photographer State Museum of Natural History, Stuttgart - Germany New website in progress: www.quentinmartinez.fr Quentin Martinez <quentinmartinezphoto@gmail.com>

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NHM UBergen MarineMalacology

A PhD position in marine malacology is open at the Natural History Museum of Bergen, Norway to work on the systematics and diversification patterns of the gastropod genus Smaragdinella. Please, spread the word across your networks and students.

See announcement below:

https://www.jobbnorge.no/en/available-jobs/job/-243132/phd-position-in-the-biosystematics-of-marine-gastropods Best wishes,

Manuel Malaquias

Manuel Malaquias, Associate Professor Department of Natural History Section of Taxonomy and Evolution University Museum of Bergen University of Bergen PB7800 5020 Bergen Norway

http://www.uib.no/persons/Manuel.Malaquias http://www.uib.no/en/rg/mollusca Associate editor of the Journal of Molluscan Studies http://-/mollus.oxfordjournals.org "Manuel Antï¿½nio E. Malaquias" <Manuel.Malaquias@uib.no>

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RobertKochInst Germany PhylogenomicsPublicHealth

The Phylogenomics Group at the Center for Artificial Intelligence in Public Health of the Robert Koch Institute is offering 3-year PhD positions.

For more details see https://www.linkedin.com/-jobs/view/3566525053/ Denise Kï¿½hnert <kuehnert@shh.mpg.de>

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StockholmU EvolutionaryEcology

4 year PhD on Butterfly Evolutionary Ecology (deadline May 19 2023).

The Department of Zoology at Stockholm University invites applications for a 4-year PhD position based in the group of Professor Rhonda Snook. Snook's lab studies the evolutionary ecology of reproduction and underlying genetics of adaptation and plasticity. This project is focused on the ecological and evolutionary consequences of fertility loss due to climate warming on natural populations of several European butterfly species. Negative effects of warming on reproductive processes are well-known but incorporating these effects into models forecasting responses to climate change are relatively rare. Here the student will quantify fitness effects of increasing heat using multiple pairs of butterfly species adapted to different environments, and determine evolutionary potential via local adaptation among populations of these species. Development and application of field-based assays for heat-induced sterility will be expected, with both lab- and field-based results combined with citizen science monitoring data and climate data used to improve ecological models forecasting future climate change responses. This work compliments and expands ongoing work in the Snook lab using Drosophila. The research for this project will be composed of both laboratory thermal manipulation experiments, measurements of behavioural and physiological traits, and field work to sample replicated populations (across Sweden and Spain), along with analyses considering citizen science population monitoring data and long term climate data. There is some scope for the student to develop additional experiments that complement the proposed research.

Selection among eligible candidates will be based on the candidate's experience in experimental and/or field work using butterflies and analytical skills. Having a valid driver's license is also preferred. The working language of the lab is English. Start date is flexible

but ideally someone who could be in place by August. However, the priority is for the strongest candidate so even if you cannot start then, consider applying if you met the other requirements. You must have a valid MSc or equivalent before starting the PhD position. The application will require contact details for 2-3 references along with a 2 page maximum cover letter detailing your previous research and specific interest in this project. It is strongly recommended that you read relevant literature around the project goals and motivate your cover letter accordingly.

For more information, please contact Rhonda Snook (rhonda.snook@zoologi.su.se)

To apply, use this URL https://www.su.se/english/-about-the-university/work-at-su/available-jobs/phd-student-positions-1.507588?rmpage=job&rmjob=-20843&rmlang=UK Rhonda R Snook Professor Ecology Division Department of Zoology Stockholm University, Sweden

Rhonda Snook <rhonda.snook@zoologi.su.se>

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TelAvivU EvolutionaryEcology

How do parasites cope with extreme climate?

MSc and PhD positions in Evolutionary ecology.

The positions are available in the research group of Prof. Frida Ben-Ami, from Tel Aviv University, Israel (www.ben-ami.com), starting October 2023.

The research focuses on understanding the consequences of global warming and extreme weather conditions on the spread of diseases and the ecological significance of these changes. The work will be carried out using the model system Daphnia-microparasites (bacteria and microsporidia).

The successful candidates will use a combination of experimental evolution, field approaches and molecular work to generate new and refined predictions regarding the virulence of parasites that spread into new habitats.

Requirements

- Creative thinking

- BSc/MSc degree in biology

- Background in evolutionary biology or ecology - an advantage

- Analytical skills and good knowledge in statistics

- Communication and writing skills in English

- Good work ethics

Please send your application by email (all material in one PDF) to Frida Ben-Ami (frida@tauex.tau.ac.il). Applications should include a CV, a list of publications and a statement about research interests (motivation letter). Please provide names and email addresses of two persons who are willing to write a letter of recommendation. Application deadline is April 30, 2023.

Prof. Frida Ben-Ami | Life Sciences |

www.ben-ami.com Frida Ben-Ami <frida@tauex.tau.ac.il>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca)

TexasStateU ConservationGenomics

MS position in conservation genomics

Accepting applications for an energetic and capable student who wishes to pursue a Masters degree in Population and Conservation Biology and is interested in the application of next-generation DNA sequencing tools to problems in conservation and evolutionary genomics. The research focus is on riffle beetle population genetics. Applicants with experience in population genetics and computational biology are preferred. Funding has been secured for research costs and 3 months of summer pay for two summers with the possibility of a research assistantship for 1 long semester. We can offer an Instructional Assistant (teaching labs) during the fall and spring semesters for the length of your degree. See http://nicelab.wp.txstate.edu for details about our lab, papers and our research interests.

The Department of Biology offers a strong environment for training students in conservation and evolutionary ecology. The Masters program in Population and Conservation Biology would be the best fit for such an applicant. For program information see https://www.bio.txst.edu/-programs-offered/graduate-programs.html . Interested students should send an email with a statement of interest that includes any additional topics you might be interested in working on in our lab and your long term goals/interests. Please include a copy of your CV, relevant coursework, and any other relevant experience to

Chris Nice by email (ccnice at txstate.edu). Reference letters for top candidates will be solicited at a later date. Applications will be reviewed as they come in. Applications to our Masters program are evaluated on a rolling basis so it is possible to start Fall 2018.

Chris Nice Department of Biology Program in Population and Conservation Biology Texas State University 601 University Drive San Marcos, TX 78666 Tel: 512-245-3358 Email: ccnice@txstate.edu

"Nice, Chris" <ccnice@txstate.edu>

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Toulouse AvianViralPhylodynamics

Dear all,

I am thrilled to share with you a fully funded 3-year PhD position in our epidesa research group (Toulouse, France) that aims to investigate the transmission dynamics and evolutionary patterns of highly pathogenic avian influenza viruses in wild bird populations using virus genomes and phylodynamics. We are seeking a highly motivated candidate with some background in computational biology, ecology, epidemiology, and a keen interest in infectious diseases and animal health.If you know someone who might be interested in this exciting opportunity, please feel free to forward this email to them. The deadline for applications is April 30th, so please encourage potential candidates as soon as possible!

For more information about the project and application process, please visit https://jobs.inrae.fr/en/ot-18075 . If you have any questions, please do not hesitate to contact me atclaire.guinat@envt.fr.

Thank you for your time and help in spreading the word about this opportunity!

Best wishes, Claire

Claire GUINAT

DVM, MSc, PhD

Epidesa group,UMR INRAE-ENVT IHAP

claire.guinat@envt.fr|www.inrae.fr 23 chemin des Capelles - BP 87614 - 31076 Toulouse Cedex 3 ??? France

+33()0561192345

Claire Guinat <claire.guinat@envt.fr>

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UAM PoznanPoland ButterflyEvolution

Name of unit: Faculty of Biology, Adam Mickiewicz University in Poznan Position name: PhD student

We are looking for a PhD student on the OPUS 22 National Science Centre research project (2021/43/B/NZ8/00966) "Success of a widespread butterfly: Local adaptation or phenotypic plasticity?" funded by the National Science Centre. The aim of the project is to determine how the widespread butterfly Melanitis leda (L.) (Nymphalidae: Satyrinae) has colonized its range and adapted to varying climates and habitats https://melanitisleda.amu.edu.pl/ . Requirements: - MSc in Biology or a related field - a demonstrated interest in evolutionary ecology and field biology - strong interpersonal skills and a good level of English are important, given the international team - a driving license and interest in left-side and off-road driving will also be a plus

Task description: The Ph.D. student will perform fieldwork and lab experiments in Africa and India, coordinate a network of volunteers and collaborators, and perform data management, and data analysis. The Ph.D. student will also be involved in the preparation of manuscripts.

Conditions of employment: The workplace is in the Faculty of Biology of Adam Mickiewicz University in Poznan which is among the best institutes in evolutionary biology and ecology in Poland. The Ph.D. student will be part of an international team of experts with complementary skills.

The doctoral school includes coursework and requires some hours of teaching practice. The scholarship of 5000 PLN per month (gross) for four years is comfortable in Poland, and Poznan is a pleasant city.

- Planned date of starting work: October 1st, 2023

To be hired in the project, the candidate must pass entry exams to the Doctoral School of Natural Sciences at the Adam Mickiewicz University.

Required documents: - CV with a cover letter - scan of the Master's diploma - a (draft) publication or report - the names and e-mail addresses of two references - a

signed consent to the processing of personal data: "In accordance with Article 6(1)(a) of the General Data Protection Regulation of 27 April 2016 (Journal of Laws of the EU L 119/1 of 4 May 2016) I agree to the processing of personal data other than those indicated in Article 221 of the Labour Code (name(s) and surname; parents' names; date of birth; place of residence; address for correspondence; education; previous employment), included in my job offer for the purpose of current recruitment."

Application: - The required documents should be sent to the following email address: fremol@amu.edu.pl (prof. Freerk Molleman), by May 8th, 2023. - Applications will be evaluated by a scholarship committee appointed by the Principal Investigator. - The results of the competition will be announced no later than August 2nd, 2023. - The scholarship will be awarded in accordance with the rules contained in the Regulations for the awarding of scholarships in research projects financed from the funds of the National Science Centre introduced by the resolution of the NSC Council No. 25/2019 of 14 March 2019.

The selection procedure will have four stages, the first three involving the scholarship committee, and the fourth stage will be with a recruitment committee of the Doctoral School of Natural Sciences at the Adam Mickiewicz University (July 2023). First, the scholarship committee will preselect candidates based on the application materials. Second, these candidates will be invited for a virtual interview and to have recommendation letters submitted. Third, the most promising candidates will prepare a presentation and brief research plan, and will then be given a chance to improve these, guided by the PI. The scholarship committee will then choose the best 1-2 candidates to pass the recruitment to the Doctoral School of Natural Sciences at the Adam Mickiewicz University which includes the aforementioned presentation and research plan.

RODO information clause: According to Art. 13 of the general regulation on the protection of personal data of April 27, 2016 (Journal of Laws EU L 119 of 04.05.2016), we inform that: 1. The administrator of your personal data is the University of Adam Mickiewicz in Poznań with its registered office at ul. Henryka Wieniawskiego 1, 61-712 Poznań. 2. The personal data administrator has appointed a Data Protection Officer supervising the correctness of personal data processing, who can be contacted via the e-mail address: iod@amu.edu.pl. 3. The purpose of processing your personal data is to carry out the recruitment process for the indicated position. 4. The legal basis for the processing of your personal data is Art. 6 para. 1 lit. a of the general regulation on the protection of personal data of April 27, 2016 and the Labor Code of June 26, 1974 (Journal of Laws of 1998, N21, item 94, as amended).

— / —

UMaine MooseParasiteEvolution

*M.S.** Assistantship: One Health - Moose parasite ecology and evolution*

A Masters position is available in the Kamath and De Urioste-Stone Labs at the University of Maine, starting in the Fall 2023 semester. The student will conduct interdisciplinary research focused on understanding socio-ecological drivers and impacts of parasite infections on moose (*Alces alces*). Integrating biological, social, and environmental data, the student will use molecular and statistical approaches to understand effects of co-infections on moose fitness, and use social science tools to evaluate perceptions of risk, disease management strategies and/or communication tools. This study will provide key information to evaluate potential management approaches that will be supported by diverse stakeholders to ensure the long-term viability of moose in Maine and beyond.

The student will be co-advised by Dr*s**. *Pauline Kamath < https://kamathlab.weebly.com/ > and Sandra De Urioste-Stone < https://forest.umaine.edu/faculty-staff/sandra-de-urioste-stone/ >, through the Ecology and Environmental Sciences program < https://umaine.edu/ecologyandenvironmentalsciences/ >*. Th*e student will also participate in an NSF-NRT One Health program < https://nsfa.umaine.edu/one-health/ > that involves training in the integration of ecological, molecular, and social science approaches, professional development, and a management/policy internship. Traineeships include an annual stipend, free tuition and fees, and subsidized health insurance. U.S. citizenship or permanent residency is required to receive NRT funding. Competitive applicants will have a BSc degree; previous research experience in ecology, evolution, or related field; molecular laboratory bench experience (in DNA extraction, PCR, etc.); strong quantitative and writing skills; and an ability to work in diverse teams.

To apply, please send (1) a cover letter describing

your qualifications, including relevant research experience, laboratory and quantitative skills, coursework, experience working in interdisciplinary teams, as well as a description of how your interests relate to One Health; (2) a CV; (3) unofficial transcripts; and (4) contact information for three references. Combine materials into one (PDF) application file, and email it with the subject line, "One Health NRT Masters Position," to Pauline Kamath at pauline.kamath@maine.edu. All applications received before *May 15th* will receive full consideration but will be accepted on a rolling basis until the position is filled.

UMaine One Health NRT Program: The One Health and Environment < https://nsfa.umaine.edu/-one-health/ > initiative at the University of Maine was awarded $3 million from the National Science Foundation. The five-year project will train 71 graduate < https://nsfa.umaine.edu/one-health/one-health-nrt/ > students, including 21 funded trainees, from a variety of STEM fields. The project encourages interdisciplinary research in a range of systems, provides management and policy internships to encourage solutions-oriented practice and training to empower students to communicate with diverse audiences. We encourage women, first-generation students, veterans, students with disabilities and other under-represented groups to apply.

*The University of Maine is an EEO/AA employer and does not discriminate on the grounds of race, color, religion, sex, sexual orientation, including transgender status and gender expression, national origin, citizenship status, age, disability, genetic information or veteran's status in employment, education, and all other programs and activities. Please contact the Director of Equal Opportunity, 101 N. Stevens Hall, Orono, ME 04469 at 207-581-1226 (voice), TTY 711 (Maine Relay System), or * *equal.opportunity@maine.edu* <equal.opportunity@maine.edu>* with questions or concerns.*

Pauline L. Kamath, Ph.D. Associate Professor of Animal Diseases Animal and Veterinary Sciences School of Food & Agriculture 5735 Hitchner Hall, Rm 342 University of Maine Orono, ME 04469-5735 Phone: +1 207-581-2935 Email: pauline.kamath@maine.edu Website: https://-umaine.edu/foodandagriculture/kamath2/ Pauline Kamath <pauline.kamath@maine.edu>

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UMainz PlantHerbivoreInteractions

PhD Position available (50% TV-L E13) University of Mainz, Institute of Organismic and Molecular Evolution

Supervisor: Jun-Prof Dr Meret Huber (https://-www.uni-muenster.de/Biologie.IBBP/aghuber)

Starting date: as soon as possible

Real-Time Evolution of Plant-Herbivore Interactions

Background: One of the central paradigms in plant-herbivore interactions states that plants and their herbivores co-evolve. Yet, experimental evidence for this prediction is scarce. In this project, we aim to fill this knowledge gap by experimentally evolving duckweeds and one of its major native herbivores, the water lily aphid. By taking advantage of the rapid life cycles and the experimental manipulation possibilities in these species, we will observe and manipulate evolution in both interaction partners in real-time and thereby experimentally test a central hypothesis in plant-herbivore interactions.

We look for an enthusiastic and ambitious PhD student with strong interest in plant-herbivore interactions and evolution. The applicant should have a solid background in plant ecology or evolution and have interest in combining molecular tools, chemical analytics and experimental evolution. Experience in plant-environment interactions is advantageous. The applicant must be fluent in English and hold a MSc degree in Biology or related fields.

We offer a stimulating and interdisciplinary research environment including state-of-the-art facilities in a dynamic research group that ensures extensive supervision. The candidate can join the graduate school GenEvo ("Gene Regulation in Evolution") and fully benefit from its tailored programme. The Institute of Organismic and Molecular Evolution is located at the University Campus of Mainz, close to the lively city center of Mainz. Mainz is situated in the picturesque Rhine valley, which can easily be explored through various cultural and outdoor activities.

How to apply: Please send a single pdf containing i) a motivation letter (max. 2 pages), ii) detailed CV, iii) copies of BSc and MSc degree, and iv) names and addresses of two referees to meret.huber@uni-mainz.de. The reviewing process will start 30.04.2023 and will continue until the position is filled.

The successful candidate may start as soon as possible.

For further information, please contact : Jun.-Prof. Dr. Meret Huber Institute ofOrganismic and Molecular Evolution Johannes Gutenberg University Mainz Johann-Joachim-Becher-Weg 7 D - 55128 Mainz Phone: 0049 (0)6131 3930260 meret.huber@uni-mainz.de

Meret Huber <meret.huber@uni-mainz.de>

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UNewBrunswick FishAdaptation

MSc Position Open at the University of New Brunswick in Saint John

The Aquatic Physiology and Toxicology Lab of Dr. Alex Zimmer at the University of New Brunswick Saint John is seeking a highly motivated MSc student to start in the Fall term of 2023. Our laboratory is interested in understanding how aquatic organisms, primarily fishes, respond to natural and anthropogenic environmental change across multiple stages of biological organization. Students with diverse interests in organismal physiology, ecotoxicology, genetics, and development are encouraged to apply.

We are seeking an MSc student with an interest in bioinformatics and fish ecophysiology. In collaboration with Dr. Anne-Marie Dion-Cï¿½tï¿½(Universitï¿½ de Moncton), the student will analyze RNA-sequencing (RNA-seq) reads that were collected as part of a larger project aimed at understanding the ecophysiology of brook stickleback (Culaea inconstans) inhabiting saline alkaline lakes in Alberta. Students will be trained in advanced bioinformatics analyses including de novo transcriptome assembly, differential gene expression, pathway enrichment, and will explore the role of transposable elements in stress responses in fishes. Previous experience in bioinformatic analyses and familiarity with fish ecophysiology are considered assets.

The position will be situated in the city of Saint John, NB with frequent travel to Moncton; the student will be enrolled at UNBSJ. Please visit the Department of Biological Sciences,Zimmer Lab, and Dion-Cï¿½tï¿½ Lab websites for more information.

To apply for the position, please send an email to Dr. Alex Zimmer (alex.zimmer@unb.ca) with up-to-date transcripts and CV and a short expression of interest.

We strongly encourage applications from students who identify as members of under-represented groups and from students who are committed to increasing equity and inclusion in academic research spaces.

Review of applications will begin immediately, deadline for applying to graduate program at UNBSJ is June 1, 2023.

Alex Zimmer <alex.zimmer@unb.ca>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

UOstrava ProtistGenomics

PhD student position in genomics of protists at the University of Ostrava, Czech Republic

We invite enthusiastic highly motivated students with a strong background in genomics to apply for a 4-year PhD position starting from September, 2023 (early start dates are also possible, but need to be negotiated individually). The project will be focused on genome evolution in flagellates of the phylum Euglenozoa with the main aim to investigate the impact of lifestyle changes on gene repertoire and expression as well as gene structure. The successful candidate will also have a chance to get involved in other on-going projects related to various aspects of the biology of the parasitic family Trypanosomatidae, one of the most intensively studied groups of protists.

Requirements: experience in genome and transcriptome analysis, statistical and programming skills are advantageous

Recent publications on the topic: 1. https://-/pubmed.ncbi.nlm.nih.gov/27593378/ 2. https://-pubmed.ncbi.nlm.nih.gov/29046673/ 3. https://-pubmed.ncbi.nlm.nih.gov/31601168/ 4. https://-pubmed.ncbi.nlm.nih.gov/34578156/ 5. https://-pubmed.ncbi.nlm.nih.gov/33804709/ The successful candidate will work in an international team of friendly and talented people, in which collaboration is strongly encouraged. The official laboratory language is English.

How to apply: Please send your resume, a motivation letter, and names/contact information of two potential referees to Dr. Alexei Kostygov, Ph.D. by 20 May, 2023. E-mail: aleksei.kostygov@osu.cz

Alexei Kostygov <kostygov@gmail.com>

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ing@mcmaster.ca)

UOttawa FungalPopulationGenetics

PhD position: Community analysis and population genetics of Arbuscular Mycorrhizal Fungi

The Corradi Lab is seeking one PhD Student to continue pushing forward our understanding of the genetics/genome biology of prominent symbiotic organisms called arbuscular mycorrhizal fungi (AMF). The selected trainees will join a fun, inclusive lab supervised by Dr. Nicolas Corradi in the Department of Biology at the University of Ottawa, Canada (http://-corradilab.weebly.com/).

The PhD project will aim at expanding strain sampling and analysis from multiple populations of arbuscular mycorrhizal fungi (AMF) to:

1) Improve research community knowledge by expanding public collections of these prominent plant symbionts at the level of populations, to...

2) Further boost our understanding of their genetics, genomics, as well as taxonomic and phenotypic diversity (see selected publications below).

This work will include sampling of AMF across different types of environments, as well as isolation of selected samples and their downstream molecular and bioinformatics.

The PhD work will involve the use of molecular techniques, and bioinformatics (primarily metagenomics, but genomics/transcriptomics will be used on selected samples after collection). As such, the selected trainee is expected to have some background in at least one of the following areas: Isolation of specimens from the field and establishment of fungal cultures (preferred), and/or in metagenomics (including acquisition/handling of soil samples for DNA extractions).

Specific enquiries about the projects and should be sent to: ncorradiATuottawa.ca.

Eligibility:

General information on Eligibility can be found here: https://catalogue.uottawa.ca/en/graduate/doctorate-philosophy-biology/#Admissiontext Canadian citizens and Permanent residents will be given priority for the position. However, the position is also open to international applicants. For international applicants, good fluency in either English OR French is required.

NB: A tuition waiver may be available for applicants with high GPA; including internationals.

A complete application package includes 1) a CV, 2) Cover letter with a short description of past research accomplishments/future goals, and 3) the names and e-mail addresses of at least 2 references. Applications sent without the abovementioned documents and experience will not be evaluated.

Complete applications can be sent to Dr. Nicolas Corradi: ncorradiATuottawa.ca.

Starting date: September 2023, but we're very flexible if later start is preferred.

Evaluation of applications starts immediately until a suitable candidate is found.

Location: The University of Ottawa is a large, research-intensive university, hosting over 40.000 students and located in the downtown core area of Canada's capital city (https://www2.uottawa.ca/en).

Ottawa is a vibrant, multicultural city with a very high quality of life.(http://www.ottawatourism.ca/fr/).

Representative Publications and Preprints:

1. Sperschneider J. , Yildirir Y., Malar C M., Mayrand Nicol A., Sorwar E., Chen E.C.H. , Brauer E.K , Bosnich W. and N. Corradi. Resolving the haplotypes of arbuscular mycorrhizal fungi highlights the role of two nuclear populations in host interactions. 2023, Biorxiv. 2. Yildirir G., Sperschneider J., Malar M. C., Chen E.C.H., Iwasaki W., Cornell C., and Corradi N.. Long reads and Hi-C sequencing illuminate the two-compartment genome of the model arbuscular mycorrhizal symbiont Rhizophagus irregularis. 2022, New Phytologist 3. Malar M.C. , Krüger M., Krüger C.*, Wang Y., Stajich J.E., Keller J., Chen C.H., Yildirir G., Villeneuve-Laroche M., Roux C.R., Delaux P.M. and Corradi N. The genome of Geosiphon pyriformis reveals ancestral traits linked to the emergence of the arbuscular mycorrhizal symbiosis. Current Biology. 31, 1570-1577.e4 4. Kokkoris V., Chagnon P.L., Yildirir G., Clarke K., Goh D., MacLean A.M., Dettman J., Stefani F. and Corradi N. Host identity influences nuclear dynamics in arbuscular mycorrhizal fungi. Current Biology. 31, 1531-1538.e6 5. V., Dettman J., Dalpé Y., Stefani F. and N. Corradi. Nuclear Dynamics in the Arbuscular Mycorrhizal Fungi. 2020. Trends in Plant Science 25 p. 41-48. 6. Ropars J., Kinga Sêdzielewska Toro K. Noel J., Pelin A., Charron P., Farinelli L., Marton T., Krüger M., Fuchs J., Brachmann A., and N. Corradi. Evidence for the sexual origin of heterokaryosis in Arbuscular Mycorrhizal Fungi. Nature Microbiology 1(6): 16033,

2016.

Nicolas Corradi <ncorradi@uottawa.ca>

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UPerpignan CnidariaEvolution

PhD opportunity in symbiotic nutrient cycling in cnidarian photosymbioses EPFL

The Laboratory for Biological Geochemistry directed by Prof. Anders Meibom is looking for a motivated PhD student to work on cnidarian symbiosis and holobiont nutrient cycling.

Motivation and mission: Tropical coral reef ecosystems are in global decline due to the effects of global environmental change. At the center of this ecosystem collapse is the breakdown of symbiotic interactions within the coral holobiont, the ecological unit comprising the cnidarian host and its microbial associates. While the efficient uptake, transformation, and exchange of nutrients in these symbioses has underpinned the evolutionary success of photosymbiotic cnidarians, this metabolic dependence proves to be their achilles heel in times of climate change. This project, funded by the Swiss National Science Foundation, seeks to advance our understanding of the molecular and spatial dynamics of symbiotic nutrient cycling and its role for cnidarian holobiont functioning.

The candidate will use state-of-the-art OMICS and imaging tools to visualize, localize, and quantify nutrient exchange in the intact cnidarian holobiont. Ultimately, this will permit studying how environmental conditions affect cnidarian holobionts in light of the underlying metabolic interactions.

The Laboratory for Biological Geochemistry of Prof. Anders Meibom investigates biological processes at the subcellular level using cutting-edge micro-analytical tools. To this end, we use a suite of isotopic labeling techniques in combination with micro- to nano-scale analytical instruments, including transmission electron microscopy (TEM), secondary electron microscopy (SEM), and son microprobe secondary ion mass spectroscopy (NanoSIMS). Among the diverse range of projects in our laboratory, we use these technologies to study metabolic interaction between cnidarians (e.g. corals, sea anemones, and jellyfish) and their symbiotic partners, such as microalgae and bacteria.

The successful candidate will be supervised by Prof. Anders Meibom and Jr. Prof. Claudia Pogoreutz (CRIOBE; University of Perpignan Via Domitia, France).

Keywords and concepts: Laboratory experiments combining cnidarian model system and fieldwork approaches Characterization of symbiotic interactions using genomics and metabolomics Quantification and visualization of symbiotic interactions using novel cryogenic and conventional correlative SEM and NanoSIMS imaging applications

Your Profile: A Master Degree in a relevant discipline (Marine Biology/Zoology, Microbiology, or related) Experience with molecular biology benchwork Experience with histological sample preparation Experience with, or a strong interest in, optical imaging techniques and/or NanoSIMS analyses Experience with coral husbandry and/or manipulative aquarium experiments is an asset Basic knowledge or experience with data analysis and biostatistics Excellent oral and written English skills French skills are an asset International experience in an asset

We offer: Opportunity to work on multidisciplinary and cutting-edge projects using different imaging techniques, including (cryo-)NanoSIMS analysis Opportunity to access state-of-the-art research facilities and laboratory resources A competitive Swiss PhD student salary EPFL is an international and top ranking engineering university, offers a dynamic, stimulating, interdisciplinary, international and friendly working environment, a broad range of scientific training and networking events, and also hosts a vibrant entrepreneurial community EPFL is an equal-opportunity employer. Candidates will be recruited based on merit

Start date: As soon as possible; applications will be reviewed starting at the end of May. Important note: The chosen candidate will have to be accepted into the Doctoral School for Environmental Engineering at EPFL before the work-contract can start. (https://www.epfl.ch/education/phd/edce-civil-and-environmental-engineering/edce-how-to-apply/#faq-item-9f6d40ca008c1f1c03b8364e16993e3f)

Term of employment: Fixed-term (CDD)

Work rate: 100 %

Duration: 4 years

Your application should include: Motivation letter Full CV including publication record Contact information of at least 2 people who can provide letters of reference.

Contact: Please submit your application to Mme Michelle Wi¿½lti (michelle.waelti@epfl.ch).

Claudia Pogoreutz <claudia.pogoreutz@univ-perp.fr>

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USheffield SexualSelectionGenomics

We are seeking a motivated and enthusiastic PhD student to study the evolution and genomics of sexual dimorphism in stalk-eyed flies

Evolution and genomics of exaggerated sexual ornaments

Deadline for applying: May 8th 2023 Lead supervisor: Dr Alison Wright (University of Sheffield) Co-supervisors: Prof Jon Slate (University of Sheffield), Prof Steve Paterson (University of Liverpool), Prof Andrew Pomiankowski (UCL)

The Project Sexual selection is a powerful agent of evolution, responsible for some of the most striking traits in the animal kingdom. Many of these sexual traits are highly exaggerated, particularly in males, and are thought to have evolved as honest signals of male quality in response to female preference. Establishing how these traits and preferences arise is vital to understanding how and why the diversity of life is established and maintained.

This project will study the evolution and genomics of exaggerated male ornaments and female preference using new single-cell sequencing data and stalk-eyed flies as a model system. Stalk-eyed flies are a classic model of sexual selection as they exhibit highly-exaggerated eye-stalks, with males often having an eye span greater than their body length. The specific questions and approaches taken can be tailored to the particular interests of the student.

This work would suit a highly motivated student with strong analytical skills and an enthusiasm for evolution and genomics. Prior experience with bioinformatics is welcomed but certainly not required. The project will involve computational and laboratory work, and the successful candidate will receive high quality training in computational programming, wet-lab skills and insect husbandry. Additionally, there will be ample opportunity for the student to develop their own research interests over the course of the project.

The Team The PhD student will be joining a productive and collaborative research group in the School of Biosciences at the University of Sheffield. There will be many opportunities to collaborate with ongoing work in the lab. For more details see www.alisonewright.co.uk .The applicant will also benefit from the range of expertise offered by co-supervisors Prof Jon Slate (U. Sheffield), Prof Steve Paterson (U. Liverpool) and Prof Andrew Pomiankowski (UCL). Applicants are strongly encouraged to contact Dr Alison Wright, the lead supervisor, for more details on the group, project and facilities (a.e.wright@sheffield.ac.uk).

For details on how to apply, including eligibility, see: https://accedtp.ac.uk/how-to-apply-to-acce-dtp/ & www.alisonewright.co.uk & https://www.findaphd.com/phds/project/acce-dtp-studentship-evolution-and-genomics-of-exaggerated-sexual-ornaments/?p148840 Dr Alison Wright

Ecology and Evolutionary Biology School of Biosciences University of Sheffield www.alisonewright.co.uk Alison E Wright <a.e.wright@sheffield.ac.uk>

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USheffield SexualTraitsEnvironChange

Overview:

We are seeking an enthusiastic and motivated PhD student to study the links between animal sexual traits and environmental change.

Project title: Understanding the links between animal sexual traits and environmental change Deadline for applying: 08 May 2023 Start date: 01 Oct 2023 Lead supervisor: Dr Chris Cooney (University of Sheffield) Co-supervisors: Dr Liam Dougherty (University of Liverpool), Dr Gavin Thomas (University of Sheffield), Prof David Edwards (University of Sheffield)

The project:

Humans have brought unprecedented changes to environments worldwide. A major priority for conservation is to understand how organisms will respond to environmental change, both in terms of the vulnerability of species to extinction and how populations may evolve when faced with novel pressures.

Species traits have long been at the forefront of efforts to understand population responses to environmental change, with existing research focusing on the impor-

tance of biogeographic and ecological factors. However, a key outstanding goal is to understand the interactions between environmental change and species sexual characteristics. There are good reasons to expect that traits related to mate choice, sexual signalling, and reproduction may affect species vulnerability to extinction and/or their evolutionary responses to novel environmental conditions.

The aim of this PhD is to understand the relationships between animal sexual traits and environmental change, and to shed light on the factors influencing extinction risk and the contemporary evolution of species sexual traits.

Specific objectives include: (1) assessing the importance of sexual traits for determining extinction risk; (2) investigating whether and how environmental change is driving contemporary evolution of sexual traits; (3) investigating the consequences of environmental change for the future of animal sexual trait diversity in the Anthropocene. The project will make use of several large unpublished datasets of avian sexual traits, including high-quality measurements of plumage colouration and song: two traits that act as important sexual signals for mates and rivals in birds.

We welcome applications from candidates with broad interests in ecology, conservation and evolution to tackle this novel and exciting opportunity. Training will be provided in specific analysis techniques and the successful applicant will acquire advanced computational and communication skills that are highly transferable. There will be ample opportunity for the successful applicant to develop specific research questions over the course of the project.

The team:

The PhD student will be embedded within Dr Chris Cooneys lab (www.cooneylab.co.uk) in the School of Biosciences at the University of Sheffield. All supervisors are currently working on research projects that directly complement this studentship, providing an excellent research environment. The student can expect to work closely with supervisors and their respective collaborators around the world.

How to apply:

To apply, see: https://accedtp.ac.uk/how-to-apply-to-acce-dtp/ For more details, including eligibility, see: https://www.findaphd.com/search/-ProjectDetails.aspx?PJID=148835 We encourage applications from candidates from all backgrounds. Informal enquiries are strongly welcomed and encouraged. If you are interested, please contact Dr Chris Cooney at c.cooney@sheffield.ac.uk.

Funding notes:

This project is part of the NERC ACCE Doctoral Training Partnership. Appointed candidates will be fully funded for 3.5 years.

This funding includes: (i) Tax-free annual UKRI stipend (£17,668 for 2022/23 academic year); (ii) UK tuition fees; (iii) Research support and training grant (RTSG).

NERC Research Fellow School of Biosciences University of Sheffield www.cooneylab.co.uk Chris Cooney <c.cooney@sheffield.ac.uk>

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UTartu ConservationBiol

PhD-student position in Conservation Biology with a focus on Microbial Ecology Topic: Dead wood decomposition rates in nature: major drivers and measurement techniques Place: University of Tartu, Estonia

Supervisors: Kadri Runnel, PhD; Mikk Espenberg, PhD

In a nutshell: About 10% of the global terrestrial carbon pool is stored in dead wood in forest ecosystems. Decomposition is the main pathway by which carbon in dead wood returns to the atmosphere. Developing and refining our mechanistic understanding of decomposition is, therefore, the key to predict carbon store and flux from dead wood. The frame of this PhD is a larger project, which aims to describe, explain and predict where and why dead wood decomposes slowly in nature, and to develop nature-based solutions for maximizing carbon storage in dead wood. During your PhD studies within this project you will (1) develop and test an innovative new method for in situ measurement of the gas emissions from dead wood, and (2) study the contribution of decomposer (fungal) assemblages and the environment in explaining dead wood decomposition rates. The study will be conducted in hemiboreal forests in Estonia, where a set of natural dead wood items will be studied for mass loss, fungal communities, and gas emissions.

Application deadline: 15.05.2023

Further information: Kadri Runnel (kadri.runnel@ut.ee) and https://reaalteadused.ut.ee/en/content/doctoral-study-themain-period-admission-1-may-15-may-2023 Kadri Runnel, PhD Researcher in Conservation Biology University of Tartu

Kadri Runnel <kadri.runnel@ut.ee>

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Vienna PopulationGenetics

PhD positions in Population Genetics - apply by June 04, 2023

Over the past years, Vienna has developed into one of the leading centres of population genetics. The Vienna Graduate School of Population Genetics has been founded to provide a training opportunity for PhD students to build on this excellent on-site expertise.

We invite applications from highly motivated and outstanding students with a love for evolutionary research and a background in one of the following disciplines: evolutionary genetics, functional genetics, theoretical or experimental population genetics, bioinformatics, mathematics, statistics.

Topics include:

Adaptation from reduced genetic variation. Evolution from de novo mutations - influence of elevated mutation rates. Evolution of sex-specific neuronal signaling. Genomic and phenotypic patterns of adaptation in large experimentally evolved populations. Inference of selection signatures from time-series data. Long-term dynamics of local Drosophila populations. Speciation from standing genetic variation. Studying the evolution of gene expression with single cell RNA-Seq.

Only complete applications (application form, CV, motivation letter, university certificates, indication of the two preferred topics in a single pdf) received by June 04, 2023 will be considered. Two letters of recommendation need to be sent directly by the referees.

PhD students will receive a monthly salary based on currently euro 2.464,80 before tax according to the regulations of the Austrian Science Fund (FWF).

All information about the about available topics, the training program and the application procedure can be found at www.popgen-vienna.at Dr. Julia Hosp

Vienna Graduate School of Population Genetics Coordinator

www.popgen-vienna.at https://twitter.com/-PopGenViennaPhD c/o Institut für Mathematik, Universität Wien & Institut für Populationsgenetik, Veterinärmedizinische Universität Wien

T +43 1 25077 4302

Julia Hosp <Julia.Hosp@vetmeduni.ac.at>

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WSL Switzerland EctomycorrhizaGenomics

Title: Switzerland_WSL.EctomycorrhizaGenomics

In the framework of the Project PhytOakmeter the Research Unit ???Biodiversity and Conservation Biology??? and its ???Ecological Genetics??? Group is searching for the duration of 4 years, with a start in summer/fall 2023 for a PhD student in Landscape genomics of ectomycorrhizal fungi associated to oak PhytOakmeter is a project funded by the German Research Foundation and the Swiss National Science Foundation revolving around acclimatization and adaptation of pedunculate oak. It explores a common oak clone from a holobiont perspective by 24 scientists from Germany and Switzerland. Symbiotic interactions with holobiont partners, including ectomycorrhizal fungi, can support host acclimation to changing conditions, with benefits for long-lived trees facing climate change. However, there are serious gaps in our understanding of the ecological roles of ectomycorrhizal fungi at the level of inter- and intraspecific diversity: how do they mediate root functions and support tree adaptation and acclimation, and are ectomycorrhizal fungi adapted to their local environmental conditions?

Based on sampling sites distributed along a European transect, you will investigate signatures of local adaptation in the highly abundant ectomycorrhizal fungus Cenococcumgeophilum and how natural populations are adapted to dry conditions. You will study the effects of different C. geophilum genotypes on the symbiotic interactions with oak plants under changing biotic and abiotic environmental conditions using Ecotron, growth chamber and field experiments. Furthermore, you will explore gene expression patterns of selected C. geophilum genotypes to stressful environments using the Ecotron experiment. By integrating the results obtained and cross-examining them with those of other working groups in the Research Unit, the project aims to provide valuable information on the role of the ectomycorrhizal symbiosis on oak holobiont acclimation as well as the

adaptive capacity of ectomycorrhizal fungi.

The successful candidate holds a master???s degree in biology or environmental sciences with a strong background in microbiology, population genetics, soil ecology and/or plant-fungi interactions. You should be keen on combining field observations with controlled experiments to perform integrative data analyses including next-generation sequencing data. The PhytOakmeter project offers a unique opportunity to join forces with scientists from different backgrounds and to work on the same experimental oak system. Consequently, it is essential that you have strong skills in interacting with scientists in an interdisciplinary team, spread over several institutions. In addition, we expect experience in bioinformatics, Unix and R programming, a good knowledge of English, and the ambition to communicate results in scientific papers and at conferences. Experience with geographic information system and spatial analyses would be an advantage. Conceptual and creative skills, an independent and structured way of working and a high level of motivation and team spirit complete your profile.

Please send your complete application to Mich??le Bucher, Human Resources WSL, by uploading the requested documents through our webpage. Applications via email will not be considered. The position remains open until filled. Benjamin Dauphin, benjamin.dauphin(at)wsl.ch and Martina Peter, martina.peter(at)wsl.ch will be happy to answer any questions or provide further information. The WSL strives to increase the proportion of women in its employment, which is why qualified women are particularly called upon to apply for this position.

https://apply.refline.ch/273855/1490/seoA8iBePjwbOJ2CoRxzp2bZO8zOFpkAFoAQThhiSW81f5cvJY3c0/-apply Benjamin Dauphin <benjamin.dauphin@wsl.ch>

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Jobs

AlbionC Michigan Two1yr TeachingEvolution

The Biology Department at Albion College invites applications for two visiting full-time, one-year teaching positions beginning August, 2023. Albion College is dedicated to the highest quality in undergraduate education and committed to diversity as a core institutional value. The successful candidates will teach courses with a field component in the area of their organismal specialty (plant, invertebrate, or vertebrate), and will contribute to our introductory course, Ecology, Evolution, and Biodiversity. Additional teaching responsibilities may include a course in the candidate's area of expertise. Opportunities to teach in our Honors program are also available. Preference will be given to candidates who have completed their Ph.D. We are especially interested in candidates who will contribute to a campus climate that supports equity, diversity, and belonging. Albion College aspires to be an anti-racist institution. This position will actively promote diversity, belonging and equity through critical and compassionate communica-

tion and strategic outreach efforts to various students, faculty and staff (e.g., historically under-represented, first-generation, undocumented and DACA students, LGBTQ students).

The Biology Department resides in a well-equipped, interdisciplinary science complex (see https://-www.albion.edu/departments/biology/). This position provides an excellent opportunity for candidates interested in gaining experience in the pursuit of a teaching career. Class sizes are small, allowing for close student/faculty interaction and providing opportunities for innovative, active approaches to teaching and learning.

Application Instructions

Candidates should submit an online application including a letter of application, current curriculum vitae, official academic transcripts, a statement of undergraduate teaching experience and philosophy, a research statement, a diversity statement, and a list of three references through Interfolio at http://apply.interfolio.com/123578. Reference letters will be requested at a later date. Review of applications will begin immediately and continue until the position is filled. Please contact Dr. Sheila Lyons-Sobaski (Biology Chair) with any questions at slyons@albion.edu.

Sheila Lyons-Sobaski <slyons@albion.edu>

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CalAcademy SanFrancisco HerbariumDataAnalyst

About the Opportunity: As part of the biodiversity science efforts embedded within the Thriving California Initiative, the California Herbarium Specimen Digitization Project will make hundreds of thousands of specimens from the California Academy of Sciences (CAS) herbarium collections available online. This project combines the efficiency of high throughput specimen imaging using conveyor belt technology to image California herbarium specimens housed at CAS. Specimen images and associated data records will then be uploaded to a community science platform for further transcription and georeferencing of label data. Afterwards, fully transcribed and georeferenced records will be imported into CAS collections database and linked to their corresponding images. Results from this project will mark a major step forward in democratizing CAS museum collections, providing equitable access to these important specimens for people (botanists, scientists, and the general public) all over the world.

About the Botany Team We are a team of botanists, scientists, professionals and enthusiasts that collectively curate the Academy's collection of over 2.3 million herbarium specimens. This position will broadly support adding collections imagery and label data to the CAS botany database. This will include working with scanning contractors, ingesting and cleaning label data, working with community science organizers to crowdsource data entry, OCR, georeferencing, and all related processes and technologies. The role will be responsible for ensuring that the data entry is as efficient and correct as possible, by creating processes, working with colleagues, and by using scripting/programming to automate said processes as needed.

Key Responsibilities

- Work with the Botany Curator, Collection Manager, and Director of Scientific Computing to identify requirements for data import/export to/from contracted imaging and transcription services to the CAS internal database and computational infrastructure. This includes: - Scripted export to and ingest from community science data organizers - Scripted imagery and transcription ingest - Coordinate with contractors to implement workflows and pipelines that are in line with the needs of internal CAS databases and computational infrastructure - Develop, test and modify workflows and pipelines to georeference specimens using transcribed label data - Develop, test and modify (as needed) workflows and pipelines to achieve high level quality control, modification and/or data reshaping as images and associated records move from one place to another; regularly test and modify workflows and pipelines, as needed - Coordinate QC and data modification efforts with other digitization technicians - Coordinate with contractors to alter data delivery techniques and/or formats as needed - Coordinate with collection preparators to maximize data collection efficiency - Follow all Academy safety regulations - Other duties as assigned

Qualifications A qualified person for this position is capable of working with large datasets without seeing each piece of data individually. This person is capable of working with data in multiple formats and can modify data to suit different software and application needs. This person has either a background in the natural sciences with extensive database and programming experience, or has a background in bioinformatics and/or computer/data science with coursework and interest in the natural sciences.

Experience and/or Education:

- Undergraduate degree required, Masters degree (or higher) preferred - Experience with building, managing, and/or maintaining SQL databases - Experience working with large data, including cleaning/validation/transformation, clustering, and formatting. - Working knowledge of Python and preferably at least one other high level language suitable for data analysis (e.g., R) and techniques (regular expressions, parsing, reading in formatted data, etc) - Comfortable (ideally expert) with Linux command line and bash scripting (bash, ssh, scp, rsync, awk, etc). - Comfortable with task automation using scripting and programming tools - Knowledge of data cleaning tools (OpenRefine, Trifacta, etc) and techniques - Working knowledge of common data formats (JSON, yml, csv, tsv) and issues therein (unicode, whitespace, etc) - Knowledge of biological data systems (GBIF, Encyclopedia of life, NCBI, iNaturalist, etc) and familiarity with geospatial data. - Knowledge of taxonomy and classification, ideally botanical. - Experience working as part of a team, with both independent and collaborative goals

Skills and Abilities:

- Ability to execute computational work independently and with great attention to detail - Ability to take direction, work as part of a team or collaborate well

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Caltech LabCoordinator ResTech

The Parker lab at Caltech is searching for a new lab coordinator and research technician.

Job posting: https://phf.tbe.taleo.net/phf03/ats/careers/v2/viewRequisition?org=3DCALTECH&cws=37&rid=9076 Information about the Parker lab: https://www.beetles.caltech.edu/ Essential Job Duties:

- Lab coordination: ordering and maintaining lab equipment and reagents; managing lab expenditure; new lab member orientation; lab safety coordination; lab event coordination; coordinating lab orderliness (including via delegation of tasks to other lab members) (50% effort).

- Technical support: Overseeing beetle care and colony maintenance; RNA/DNA extraction for genomics/transcriptomics; embryo microinjection for insect transgenesis (50% effort).

Basic Qualifications:

BS in a biology-related field.

Experience in conducting biological research.

Experience with molecular biology techniques including DNA/RNA extractions; PCR; qPCR.

Knowledge of functional genetics methods (e.g., CRISPR/CAS9; transgenesis).

Knowledge of model organism biology.

Technical competence to provide support for laboratory projects in the form of ordering supplies, maintaining lab stocks, coordinating with vendors and companies to maintain equipment and instrumentation.

Technical competence to work with small insect husbandry, small insect molecular biology, and gene manipulation.

$17.00 - $23.00 Per Hour

The salary of the finalist(s) selected for this role will be set based on a variety of factors, including but not limited to, internal equity, experience, education, specialty and training.

For further information, please contact Joe Parker: joep@caltech.edu

Joe Parker, Ph.D. California Institute of Technology Division of Biology and Biological Engineering 1200 E. California Blvd. MC 216-76 Pasadena, CA 91125

Tel: +1 626 395 8729 https://www.beetles.caltech.edu/ joep@caltech.edu

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FishWildlife NewMexico ConservationGenetics

The U.S. Fish and Wildlife Service is recruiting three permanent GS-11Geneticists to work at the Southwestern Native Aquatic Resources and Recovery Center located in Dexter, New Mexico.

The town of Dexteris a small agricultural community in southeastern New Mexico, located approximately 20 miles from Roswell, NM. It is approximately a 3 to 3.5

hour drive from several major cities (Albuquerque, NM; Santa Fe, NM; El Paso, TX; Lubbock, TX). The lab has an increasing number of projects that use Illumina sequencing technology (GTseq; RADseq; metabarcoding; other Illumina applications) and wants to recruit people with relevant experience conducting library preparation for various Illumina sequencing applications, and experience analyzing Illumina (or similar) data. They have Illumina MiSeq and ABI 3500XL sequencers on station. Most studies focus on conservation and population genetics of threatened and endangered fishes of the desert southwest, but they have also recently conducted studies on other aquatic species (aquatic plants and freshwater mussels) and terrestrial species. They also have an eDNA clean room and new Quant Studio Absolute Q Digital PCR. The job announcements will open on April 19th on USA Jobs, and will be available until 11:59 PM Eastern time on May 3, 2023. Both announcements below are for the same position (i.e., government-wide and public applicant links).

If you have any questions concerning the position, please contact the hiring manager, Kin Han (kin-lan_han@fws.gov). Please share this announcement with anyone you think would be eligible and interested.

https://www.usajobs.gov/GetJob/ViewDetails/-720380000(government-wide) https://-www.usajobs.gov/GetJob/ViewDetails/-720379600(public)

Thanks,

Kin

Kin-Lan Han, PhD Supervisory Geneticist (Research Unit Leader) U.S. Fish and Wildlife Service Southwestern Native Aquatic Resources and Recovery Center P.O. Box 219 Dexter, NM 88230

“Han, Kin-Lan” <kin-lan_han@fws.gov>

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GermanEntomologicalInst HeadMolecularLab

Job announcement ref. #09-23001

The Senckenberg Gesellschaft fuer Naturforschung (SGN) was founded in 1817 and is one of the most important research institutions around biological diversity. At its eleven sites throughout Germany, scientists from over 40 nations conduct cutting-edge research on an international scale. At the site in Muencheberg, Brandenburg, the Senckenberg German Entomological Institute (SDEI) is located in a research town in the Berlin area with state-of-the-art scientific facilities.

The Senckenberg Gesellschaft fuer Naturforschung intends to fill at the Senckenberg German Entomological Institute (SDEI), near Berlin, as soon as possible the position of a

Scientific employee (m/f/d) as head of the molecular lab (full time / part time options available)

Your tasks: - Research focusing on molecular phylogeny/taxonomy and/or phylogeography of insects in combination with related areas, such as evolution, ecology and conservation - Management, coordination and development of the molecular genetics laboratory including the curation of the tissue collection of SDEI - Self-dependent acquisition of third-party funding and coordination of such projects - Integration and collaboration in core projects of SDEI and SGN - Leadership and training of staff, willingness to teach early-career scientists - Responsibility for general functions and management processes of the institute Your qualification: - A doctoral degree in biology/zoology or a related discipline - Experience in up-to-date genetic methods including genomics and respective bioinformatics - Experience with genetic analysis of collection material is highly welcome or needs to be acquired - Experience to organize a molecular lab (and a tissue collection) - International publications about insects, with a focus on genetic analyses - Willingness to participate in interdisciplinary work, including acquisition of third-party funded projects - Solid knowledge of entomology, communication skills and experience with international cooperation are desired - A good command of English. An adequate knowledge of German is desired, and its rapid acquisition expected if not already given

We offer: - An attractive and challenging position in a research institution of worldwide standing - An employment initially limited to two years with the option of a permanent contract - A salary that reflects the tasks and responsibilities of the position based on the collective agreement for public service (TV-L) in the state of Brandenburg - Excellent opportunities for further qualification, for example, support by the SDEI to acquire an adequate command of German - Flexible working hours - option for mobile working - support with childcare or caring for family members (certified by the “audit berufundfamilie”) - a collectively agreed special annual payment - collectively agreed vacation entitlement - company pension plan

Location of employment: Muencheberg (Brandenburg)

Working hours: Full time / the position is suitable for part-time Type of contract: Employment is initially limited to two years with the later option of a permanent contract Salary: According to the collective agreement for public service TV-L (E 13)

Senckenberg is committed to diversity. We benefit from the different expertise, perspectives and personalities of our staff and welcome every application from qualified candidates, irrespective of age, gender, ethnic or cultural origin, religion and ideology, sexual orientation and identity or disability. Women are particularly encouraged to apply, as they are underrepresented in the field of this position and will be given preference in the case of equal qualifications. Applicants with disabilities ("Schwerbehinderung") will be given preferential consideration in case of equal suitability. Senckenberg actively supports the compatibility of work and family and places great emphasis on an equal and inclusive work culture.

You would like to apply? Please submit your complete and comprehensive application (letter of motivation with a short description of your previous and current research foci, your detailed CV, certificates of academic achievements as well as letters of recommendation) mentioning the reference of this job announcement (ref. #09-23001) by 15 May 2023 by e-mail (attachment in a single pdf document) to: recruiting@senckenberg.de. Alternatively, you can apply directly through our online application form at our home page www.senckenberg.de/-de/karriere/bewerbung/ .Senckenberg Gesellschaft fuer Naturforschung Senckenberganlage 25 60325 Frankfurt a.M. E-Mail: recruiting@senckenberg.de

For more information on the position, please contact Prof. Dr. Thomas Schmitt via email thomas.schmitt@senckenberg.de or +49 33432 73698-3701. For more information about the Senckenberg Nature Research Society visit

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KonstanzU EvolutionaryBiology

At the University of Konstanz in Germany we have an opening for an

Assistant Professor/Jr. Group leader in evolutionary biology

(earliest starting date: June 2023)

The person we are looking for should be an evolutionary biologist who works on questions in either molecular evolution, and/or the genomics of speciation and adaptation. The position is intended for a Ph.D. biologist, ideally with prior postdoc experience, a strong publication record in evolutionary biology, and with expertise in evolutionary genomics. A total of three research groups two of which are headed by Junior Group Leaders make up the evolutionary biology group in the Department of Zoology and Evolution Biology at the University of Konstanz: https://www.evolutionsbiologie-uni-konstanz.com/ Our taxonomic emphasis is on fish, particularly on cichlid fish, but also other fish model systems are used in our research on comparative and speciation genomics and comparative developmental biology. We are especially interested in the origins of (convergently evolved) adaptations, speciation, and phylogenomics of cichlid fish adaptive radiations from Nicaragua and Africa. We are open to consider anyone investigating other interesting taxa and questions.

For publications of the lab see:

https://www.evolutionsbiologie-uni-konstanz.com/-publications.html Space in a modern fish facility is available and the exclusive support of a 50% technician will be provided to this new group. Wet lab space, equipment, departmental facilities, including core-facilities in proteomics and genomics, and annual financial support for research expenses and student support, are provided by the University of Konstanz. The lab has sufficient space and state-of-the-art equipment for research in zoology, ichthyology, genomics, molecular, and developmental biology.

The University of Konstanz and the Department of Biology are among the most highly ranked institutions in Germany and provide a lively and academically outstanding research environment. Konstanz is a lovely historic town located on Lake Constance on the southern border between Germany and Switzerland. The position comes with a competitive salary, and excellent health and retirement benefits.

Appointments are initially for three years and are renewable for several years after that. Habilitation is possible, and a modest amount of teaching (in English at the BSc and MSc level) is required. The Assistant Professor is expected to acquire external funding and to supervise undergraduate, and graduate students as well as postdocs.

The University of Konstanz is an equal opportunity

employer and tries to increase the number of women in research and teaching. The University of Konstanz is committed to further the compatibility of work and family life and has onsite child care facilities https://www.uni-konstanz.de/en/equalopportunities/-family/childcare/kinderhaus-knirps-co-childcare-centre/ Additional information contact:a.meyer@uni-konstanz.de, phone: +49 7531884163. For our current research see: https://scholar.google.com/-citations?user=qf6eWtgAAAAJ&hl=en&oi=ao Applications- including a statement of research interests, research plans, a full CV and names and email addresses of 2-3 referees - should be emailed to:a.meyer@uni-konstanz.de.

Applications will be reviewed as soon as they are received, but should be submitted by May 26th, 2023.

Prof. Dr. Axel Meyer, Ph.D. Lehrstuhl fï¿½r Zoologie und Evolutionsbiologie Department of Biology Building M, Room M806 University of Konstanz 78457 Konstanz Germany

fon + 49 (0)7531 88 4163 fax + 49 (0)7531 88 3018

secretary: Office.Meyer@uni-konstanz.de tel. + 49 (0)7531 88 3069

http://www.evolutionsbiologie-uni-konstanz.com/ Axel Meyer <axel.meyer@uni-konstanz.de>

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RZSS Edinburgh Zoo ConservationGeneticsLabTech

RZSS WildGenes Genomics Technician (Conservation genetics) Location: Royal Zoological Society of Scotland - Edinburgh Zoo

About Us The charity that owns both RZSS Edinburgh Zoo and RZSS Highland Wildlife Park is looking for a committed, compassionate, and conservation-minded individual to join their expert staff team. RZSS aims to connect people with nature and safeguard species from extinction, a mission that sees us work both here in Scotland and in over 20 countries around the world. From inspiring the next generation about wildlife in our parks to protecting chimpanzees in the Ugandan rainforest; looking after some of the world's most endangered species to saving the Scottish wildcat, RZSS is making a huge difference and we need your help to continue to grow.

The role The Royal Zoological Society of Scotland's WildGenes team are looking for a dedicated Genomics Technician (Conservation Genetics). Based at Edinburgh Zoo, the team uses genetic data to inform the conservation of 10-15 species annually. This role will involve performing a range of molecular techniques to deliver quality data to the WildGenes analysis team. Reporting to the Senior laboratory technician, you will be expected to maintain an organised laboratory environment and co-ordinate your lab work on multiple conservation projects. You will be expected to work closely with any students utilising the genetic lab; the analysis team; and our biobank. It is a full-time permanent role working 37.5 hours per week.

Who we are looking for The successful candidate will hold a BSc in a relevant scientific discipline or job experience in a relevant scientific role. They will need knowledge of standard molecular genetic laboratory techniques, be able to communicate well with visiting researchers/students, have experience of PCR based molecular genetic techniques and experience of DNA extraction.

Salary The position sits within Band D (ï¿½26,610 - ï¿½30,592 Per Annum)

Interested? For full information on how to apply, please visit the RZSS vacancy page and follow the instructions: https://www.rzss.org.uk/job-opportunities/ Closing date: Thursday 4th May 2023.

Invitation to interview will be by email/phone and interviews will take place during the week beginning 22nd May 2023.

For any questions and queries, please email Elizabeth Heap at eheap@rzss.org.uk quoting "Genomics Technician" as the subject.

Our mission is to connect people with nature and safeguard species from extinction.

The RZSS strives to be an equal opportunities employer. Registered Charity SC00406

Alexander Ball <aball@rzss.org.uk>

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SangerInst UK ScienceLead Biodiversity

We are seeking someone to fill a 12 month maternity leave vacancy for the BIOSCAN Science Lead. This post is effectively a strategic operations management role that ensures the whole project is working well, delivering to its aims and to our partners.

The project is described here: https://-www.sanger.ac.uk/collaboration/bioscan/ And the advertisement for the role is here and posted below: https://sanger.wd3.myworkdayjobs.com/en-US/-WellcomeSangerInstitute/details/BIOSCAN-Science-Lead—Insect-Diversity-Project_JR100802 Please get in touch if you have any questions mara@sanger.ac.uk

Thank you Best Mara Lawniczak

About the project: BIOSCAN is a global project initiated by the International Barcode of Life to simultaneously study species diversity, interactions, and dynamics using DNA barcoding. At the Wellcome Sanger Institute, we are leading a project that contributes to this global effort. We have partnered with agencies and researchers across the UK to collect and study one million insects over the next five years.

You will be responsible for: The BIOSCAN UK project already has many partners. The role will require excellent communication with our partners, ensuring they have the support they need to deliver 10,000 insect specimens each month. We anticipate that new partners may join the project during the 12 month post and this role would also need to support new partner onboarding. Additionally, the role oversees the tracking of tens of thousands of samples as they arrive at the institute and enter the sequencing queue. Finally, the role is also in charge of overseeing the delivery of data analysis results back to our partners and ensuring that the strategic goals of the project are being met.

About You:

You will have experience in operating large programmes of research, being able to balance many different demands on your time. You will need to continue to implement effective sample management systems in collaboration with relevant internal teams - this work would involve Jira, Benchling, LIMS, and a sample tracking system database. This will include reviewing, developing, and continuously improving metadata tracking, sample acquisition, sample shipping, receipt and storage processes, and data analysis and return processes. You will need to identify and mitigate risks and issues early and lead the development of reporting systems back to partners that ensure timely return of results. You will be comfortable driving the relationships with partners and being available to partners as a point of escalation for any sample collection or other issues.

Essential skills:

Technical Skills:

* Advanced scientific qualification such as Master's with years experience or PhD * Experience of successfully managing a large research project involving many collaborator * Ability to demonstrate delivery of a complex project to time, cost and quality * Evidence of careful attention to detail * Evidence of working with spreadsheets and databases to manage information carefully and under change control * Project management experience and experience of Agile ways of working and Lean process improvement.

Competencies and Behaviours:

* Excellent stakeholder management skills are required, including evidence of working with a wide range of collaborative partners including experience with international stakeholders. * Excellent communications skills and evidence of an ability to adapt their communications style to a wide range of audiences. * Demonstrates inclusivity and respect for all

Other Information: Salary per annum: 52,375-62,222

Application Process: Please write a cover letter that 1) showcases your relevant skills and background and 2) describes how you would approach the role. Applications lacking a cover letter addressing these two areas will not be considered. We welcome applications equally from those who wish to work full time (37 hours) or for a minimum of 30 hours per week via a flexible working arrangement.

Closing Date: 1st May 2023

The Wellcome Sanger Institute is operated by Genome Research Limited, a charity registered in England with number 1021457 and a company registered in England with number 2742969, whose registered office is 215 Euston Road, London, NW1 2BE.

Mara Lawniczak <mara@sanger.ac.uk>

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Senckenberg Franfurt FiveStaff MarineBiodiversity

Marine invert taxonomy cluster hire - Senckenberg - deadline 8 May Reply-To: Julia Sigwart <j.sigwart@qub.ac.uk>

Dear friends

The Senckenberg Ocean Species Alliance (SOSA) is a 10-year project in the Senckenberg Museum, Frankfurt, Germany, funded by a generous philanthropic donation to advance marine biodiversity.

SOSA is starting a new taxonomic service unit; a programme to (in the near future) offer morphological description and illustration support for unnamed marine invertebrates, in the same way that you now send material for barcode sequencing or other out-source-able lab services.

To build this team, we are currently hiring FIVE new staff in our SOSA Discovery Unit: - lab manager / team lead - technicians (n=3) - research assistant for a comparative analysis of recent species descriptions across many invertebrate phyla

Deadline for all open positions is 8 May 2023 More information, job descriptions, and application instructions are available here: https://sosa.senckenberg.de/en/jobs We welcome applications from people anywhere in the world. The working language in our research groups is English. We are committed to supporting the careers of women in science, people with disabilities, and other under-represented groups.

Please spread this information widely to your networks. We are very excited about this new project and look forward to hiring some outstanding people who share our vision and passion for marine biodiversity and taxonomy!

Best wishes,

Julia

Prof Dr Julia Sigwart Head of Section, Malacology Senckenberg Research Institute and Museum

@sigwartae

bit.ly/SMFMalacology

You can download my book! bit.ly/whatspeciesmean

Julia Sigwart <j.sigwart@qub.ac.uk>

Tenerife Spain Bioinformatics

Two-year position for a bioinformatician to work within the Horizon Europe project “Biodiversity Genomics Europe”.

This position offers the opportunity to work within a multi-partner project that brings together researchers from fields spanning barcoding through metabarcoding to genome assembly (https://biodiversitygenomics.eu). The position will build upon recent advancements in bulk arthropod sample metabarcoding to develop and refine pipelines to remove errors associated with (i) taxonomic inflation at the community level and (ii) haplotype inflation within species. This will include, but not be restricted to, improving and benchmarking metaMATE (DOI: 10.1111/1755-0998.13337) and the development of a user-friendly GUI, integrating denoising methods. The position also provides the opportunity to work with data generated within the project involving Malaise trap sampling of arthropod communities sampled across Europe. The project’s sampling programs address objectives that include a focus on (i) pollinator communities and (ii) arthropod biodiversity changes across altitudinal gradients. There will be further opportunities to collaborate within ongoing related research within the host institute.

The position is competitively funded, with a start date of September 01, 2023. The successful applicant will be based at the IPNA-CSIC in Tenerife, Spain, with project-related travel and remote working opportunities. Informal enquiries are welcome and can be made to Brent Emerson (bemerson@ipna.csic.es), Carmelo AndïÂ¿Â½jar (candujar@ipna.csic.es) or Paula Arribas (pauarribas@ipna.csic.es).

Brent Emerson Island Ecology and Evolution Research Group Instituto de Productos Naturales y AgrobiologïÂ¿Â½a (IPNA-CSIC) C/AstrofiÂ¿Â½sico Francisco SïÂ¿Â½nchez 3 La Laguna, Tenerife, Canary Islands, 38206, Spain e-mail:bemerson@ipna.csic.es http://brentemerson.com/ Brent C Emerson <bemerson@ipna.csic.es>

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UFlorida SexualSelection

Applications are invited for a Research Scientist to work on the behavioral ecology of insects at the University of Florida in Gainesville. This position is funded for three years and may be extended beyond this time. Starting salary is $50,000/year.

Position description: The Miller Lab at the University of Florida welcomes applications for a research scientist to administer activities and provide project management under a $1.24M National Science Foundation award. The successful applicant will engage in constructive mentoring and supervision to students, interns, and research staff while completing work on sexual selection in insects. This work will be varied, engaging, and challenging, with no two days the same. The Research Scientist will work closely with the PI on a weekly basis to organize activities under the NSF award. Because of hiring requirements at the University of Florida, this position is only open to U.S. Citizens and Permanent Residents.

We offer continuous learning opportunities including training and mentoring, and the resources you need to grow your career in whichever direction you choose. Whether you want to increase your expertise in a particular area or broaden your skills and experience, we will support you. Funding for this position has been secured for three years, and it may be extended if further funding is achieved.

Job responsibilities:

Recruiting and training students and research staff; Overseeing the day-to-day activities in the laboratory, including providing work schedules, delegating tasks, and providing quality control; Maintaining multiple insect colonies and provide plant care; Engaging with our extended team to provide scientific outreach including interfacing with classrooms and uploading videos for online engagement; Regularly performing inspections of equipment and organizing maintenance where needed; Purchasing laboratory supplies and completing paperwork; Filing, administration, and producing annual reports of laboratory accomplishments; Ensuring that students and staff are safe by providing the necessary security and implementing relevant health and safety procedures; and Being an engaged and enthusiastic contributor to a positive working atmosphere.

Qualifications: Well-qualified candidates will have A Ph.D. in the biological sciences, or another degree in the biological sciences with 3+ years of experience in project management; Experience in a leadership role; Evidence of excellent communication skills; Excellent organizational skills and attention to detail; A demonstrated commitment to producing high quality research through peer-reviewed publications and/or oral presentations; and Experience caring for animals.

Desirable qualities include:

Possession of a drivers license; Comfort conducting field work in hot, humid Florida conditions on occasion; and Experience caring specifically for insect colonies.

Interested applicants can learn more about this position, including how to apply, at: http://www.millerlab.net/-opportunities.html. This position is considered "Biological Scientist II" within the University of Florida system.

Diversity and inclusion are more than just words for us. These are central in guiding how we come together as a research team, cultivate excellence, and go forth into the world to share our discoveries and our love of our work.

Information about Gainesville, Florida:

Situated in the rolling countryside of north central Florida, Gainesville, is close to world-class fishing, snorkeling, canoeing, tubing and kayaking. On land, those so inclined may enjoy birding, hiking, biking, and fishing. Home of the University of Florida, seat of Alachua County's government and the region's commercial hub, Gainesville is progressive, environmentally conscious, and culturally diverse. The presence of many students and faculty from abroad among its 99,000-plus population adds a strong cross-cultural flavor to its historic small-town Southern roots. Its natural environment, temperate climate and civic amenities make Gainesville a beautiful, pleasant, and interesting place in which to learn and to live.

Christine W. Miller (she/her) Associate Professor

Email: cwmiller@ufl.edu

Entomology & Nematology Department University of Florida www.millerlab.net

2022-2023 On Sabbatical at the University of Cambridge, UK

"Miller, Christine W." <cwmiller@ufl.edu>

UMissouri LabTech EvolutionaryGenomics

The King Lab at the University of Missouri is planning to hire a research specialist (level 1) to conduct research in evolutionary genomics. This position will include coordinating and carrying out complex laboratory experiments, general lab maintenance and administrative tasks, and data management & analysis. This position would be an ideal position for a recent graduate looking for research experience prior to applying for graduate school. Research in the King Lab addresses fundamental questions in evolutionary genomics, seeking to understand how genomes change when phenotypes evolve. We integrate computational methods with large-scale empirical studies, with a primary focus on understanding the evolution of complex traits, particularly sensory and life history traits, using the fruit fly model system.

The research specialist will be part of a research team working to understand the genetic and physiological mechanisms underlying complex phenotypes using fruit flies as a model system.

- Duties will include coordinating and carrying out complex laboratory experiments, general lab maintenance and administrative tasks, and data management & analysis.

- Lab activities include: fruit fly maintenance and care, DNA and RNA sample preparation, coordinating experimental evolution of fly populations, developing physiological assays

- Experiment and data management duties include, maintaining a detailed lab book, organizing and keeping records about data storage for the lab's projects, collating and organizing protocols, experimental plans, data collection sheets, and collaborative work schedules.

- General laboratory duties include preparing reagents, re-stocking supplies, ensuring laboratory compliance for lab safety

- Research team duties include, providing assistance and training for incoming trainees, coordination of projects involving collaboration between lab members, participation in lab and research meetings.

- Participates in lab and research meetings

- Other job duties and tasks as assigned

- Occasional flexibility in the typical work schedule may be necessary for some experiments (e.g. occasional brief weekend hours, etc.)

Interested applicants should apply here: https://erecruit.umsystem.edu/-psp/tamext/COLUM/HRMS/c/-HRS_HRAM_FL.HRS_CG_SEARCH_FL.GBL?Page=-HRS_APP_JBPST_FL&Action=U&SiteId=-6&FOCUS=Applicant&SiteId=6&JobOpeningId=-46669&PostingSeq=1 If you are a current employee of the University of Missouri please use the following link instead: https://myhr.umsystem.edu/-psp/myhrprd/EMPLOYEE/HRMS/c/-HRS_HRAM_EMP_FL.HRS_CG_SEARCH_FL.GBL?Page=HRS_APP_JBPST_FL&Action=U&FOCUS=-Employee&JobOpeningId=46669&PostingSeq=-1&SiteId=6 Please email Elizabeth King (kingeg@missouri.edu) with any questions. Review of applications will begin May 8th and the position will remain open until filled.

The Division of Biological Sciences at MU (http://-biology.missouri.edu/) has research strengths in evolutionary biology, genetics and genomics, and quantitative biology. MU also boasts a highly collaborative research environment between departments within the life sciences (e.g., animal sciences, plant sciences, biomedical sciences, statistics, etc.). Columbia is a vibrant college town located in mid-Missouri, 2 hours from both Kansas City and St. Louis (http://en.wikipedia.org/-wiki/Columbia,_Missouri).

University of Missouri System is firmly committed to Equal Employment Opportunity (EEO) and to compliance with all federal, state, and local laws that prohibit employment discrimination on the basis of race, color, national origin, ancestry, religion, sex, sexual orientation, gender identity, gender expression, age, genetic information, disability, or protected veteran status. This policy (Section 600.010 of the UM Collected Rules and Regulations) applies to all employment decisions including, but not limited to, recruiting, hiring, training, promotions, pay practices, benefits, disciplinary actions, and terminations.

As a government contractor, University of Missouri System is also committed to taking affirmative action to hire and advance minorities and women as well as qualified individuals with disabilities and protected veterans.

About University of Missouri

Mizzou is a world-renowned educational and research institution, and our first-rate faculty, staff and students are part of something

This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.-mcmaster.ca/~brian/evoldir.html

USFS NatlGenomicsCenter ConservationGeneticist

We are seeking a conservation geneticist for a permanent, GS-12 position in the National Genomics Center for Wildlife and Fish Conservation. The scientist will be an integral part of a larger research team comprised of scientists, professionals, technicians, and administrative staff. The mission of this team is to "Provide scientific leadership, reliable ecological understanding, and management tools for the conservation and management of wildlife populations and their habitats." As a collaborative member of this team, the scientist will develop a research program that uses molecular genetic tools to improve our understanding of wildlife population response to a changing terrestrial landscape.

This position will be housed in the research branch of the USDA Forest Service. Applicants should have the interest in collaborating with scientists at the Wildlife and Terrestrial Ecosystems branch locally in Missoula as well as those dispersed throughout the Rocky Mountains (see link below for more information about the WTE program). https://www.fs.usda.gov/rmrs/science-program-areas/wildlife-and-terrestrial-ecosystems Additionally, the applying scientist will collaborate with the management branch of the National Forest Service to conduct research and service projects that furthers our knowledge base and helps inform the natural resource decision-making processes. Strong candidates will be those dedicated to conducting both basic and applied conservation genetics and genomics research. This includes answering important questions with existing partners in the research and resource management community as well as developing independent research projects that furthers the mission of the USFS.

This is not the formal application announcement. It is an outreach notice for a non-remote work eligible position. The formal announcement appears on USAJOBS as a "Research Biological Scientist". The position will be open from 4/7/23-4/17/23 as per government regulations. https://www.usajobs.gov/GetJob/ViewDetails/-718072500 Announcement Number 23-RES-11918738-DDHA-CC

A career with the U.S. government provides employees with a comprehensive benefits package. As a federal employee, you and your family will have access to a range of benefits that are designed to make your federal career very rewarding. Learn more about federal benefits at: https://www.usajobs.gov/Help/working-in-government/benefits/ . Qualifications: Ph.D. in a biological discipline relevant to molecular genetics, conservation genetics, environmental DNA analysis, landscape genetics, population genetics, bioinformatics, ecology, or conservation biology. Post-doctoral experience is preferred. The candidate should demonstrate research excellence, creative problem solving, the ability to build a research program as documented through peer-reviewed publications, and the ability to obtain independent, extramural funding. Demonstrated ability to work collaboratively with a team is essential. The selected candidate will receive mentorship from a local team of scientists in all aspects of the position and how to be effective in the Agency.

"Fraik, Alexandra - FS, MT" <Alexandra.Fraik@usda.gov>

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UWisconsin StevensPoint LabManager FisheriesGenetics

This position is responsible for directing laboratory and research functions as well as coordinating research projects and student staff activities to ensure quality control and compliance within the Molecular Conservation Genetics Laboratory (MCGL) of the WI Cooperative Fishery Research Unit (WICFRU). As such, this position provides research support for WICFRU, the Wisconsin Department of Natural Resources, and faculty and staff of the College of Natural Resources. MCGL research typically relies on techniques such as RAD-seq, sequencer-based microsatellite genotyping, GT-seq, whole genome resequencing, eDNA (qPCR and metabarcoding), and RNA-seq. Protocol-specific training will be available as needed.

Required Knowledge, Skills, and Abilities: Master's degree in genetics, zoology, biology, molecular biology, microbiology, or other field with expertise in genetic techniques and protocols, Experience in research and development of genetic techniques and protocols, Experience in management/implementation of instrumentation

and workflow in a genetics laboratory, Experience with experimental design and data analysis

Preferred Knowledge, Skills, and Abilities: Good interpersonal skills, Good verbal and written communication skills, Fisheries and aquatic science sampling and field experience

Expected start date: Sept 1, 2023

Apply by: May 21, 2023

Salary: $48-60K depending on experience

More information, including how to apply available at: https://www3.uwsp.edu/hr/jobs/Pages/-AcademicJobView.aspx?UWSPJobsCode=3D19634 Questions can be directed toward:

Jared Homola Assistant Unit Leader USGS, Wisconsin Cooperative Fishery Research Unit Director, Molecular Conservation Genetics Lab jhomola@uwsp.edu

"Homola, Jared" <jhomola@uwsp.edu>

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Other

CallForApplications ForPostDoctoralFellow

Dear Colleagues,

We are excited to invite applicants for a new professional development program at UMass Amherst: UNVEIL: Revealing the hidden curriculum of faculty job application, interviewing and negotiation to contribute to diversifying scientific leadership.

The main goal of this program is to increase diversity among faculty and scientific leadership in the Natural Sciences, with a specific focus on groups underrepresented in their fields. The program provides training to early career researchers to help them excel during the application and faculty interview process by exposing admitted fellows to the same components that they will experience during the faculty job process. The program is open to postdoctoral fellows and finishing graduate students residing in North America, with priority given to applicants planning to pursue jobs in the 2023-2024 academic year (see more details on eligibility at the link below). For this first year's cohort, participating departments are Environmental Conservation, Biology, and Earth, Geographic and Climate Sciences.

More details on programmatic activities, eligibility, focal sub-fields, and the application can be accessed here: https://forms.gle/zNWfkntVM1tpDUUW7. The deadline for applications is May 15th, 2023.

This program is sponsored by the National Science Foundation Divisions of Biological Sciences and Geosciences, the Howard Hughes Medical Institute Gilliam Program, the UMass Amherst Office of Equity & Inclusion and Graduate School Office of Professional Development, and the departments of Environmental Conservation, Biology, and Earth, Geographic and Climate Sciences.

We would greatly appreciate your assistance circulating this message to your networks, and any questions about the program can be directed to lkomoroske@umass.edu.

Respectfully,

Lisa Komoroske & the UNVEIL Steering Committee

Lisa M. Komoroske, Ph.D. Assistant Professor of Conservation Genomics & Ecophysiology Dept. of Environmental Conservation UMass Amherst https://-lmkomoroske.com/ lkomoroske@umass.edu

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Evolution OutreachGrant

The Society for the Study of Evolution (SSE) Education and Outreach Committee is now accepting proposals for the Small Grants Program for Local and Regional Outreach Promoting the Understanding of Evolutionary Biology.

These grants provide support for local and regional educational outreach activities to take place during 2023. Examples of past outreach activities have included public lectures, exhibits, student competitions, and professional development events for teachers.

Grants up to $1000 USD will be awarded. Applicants must be members of SSE. The deadline to apply is April 24, 2023.

Learn more about these grants and how to apply on the SSE website: https://rb.gy/-swgrn *Kati Moore*she/her *Communications Manager* *Society for the Study of Evolution* communications@evolutionsociety.org www.evolutionsociety.org SSE Communications <communications@evolutionsociety.org>

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FieldVolunteers SiberianJayProject

Expenses-paid field assistant positions for a project investigating social interactions of Siberian jays in Swedish Lapland

For the period 25 July to 15 October 2023, we are looking for 2 highly motivated, expenses-paid field volunteers to assist with our field project (principal investigator Dr. Michael Griesser, University of Konstanz). The study site is located near Arvidsjaur in Swedish Lapland. An overview over our past work can be found here: https://www.youtube.com/watch?v=JaH6wjAYAiE Our current project investigates the drivers of variation in social interactions of Siberian jays. The work of the field volunteers will be to help with catching, and colour-ringing birds, sampling blood, conducting population censuses and behavioral observations, assist in experiments and managing data. This work will provide insights into a long-term study system and will be carried out in managed and pristine boreal forests.

Please note that daytime temperatures at the end of the season can be as low as -10C. Fieldwork at times involves walking up to 15km per day.

Qualifications: 1) Field work experience, involving behavioural observations and experiments 2) Bird ringing and mist-netting experience 3) Ability to work in small team and sociable personality 4) Driver's license (manual transmission) 5) Fluent in English

We will cover accommodation, travel expenses from and to the study site (up to 400 euros return), as well as on-site living expenses (food).

Applications, including a CV, letter of motivation (1 page), and the name of two referees, should be sent to Michael Griesser michael.griesser@uni-konstanz.de, preferably in a single PDF.

Review of applications will start 18 May 2023, position will remain open until filled.

Michael Griesser Heisenberg Fellow Department of Biology University of Konstanz

https://scholar.google.com/citations?user=-IEIH0xkAAAAJ Michael Griesser <michael.griesser@uni-konstanz.de>

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Nominations SMBE Treasurer

Nominations for SMBE Treasurer - due by Monday, May 1, 2023 -

Dear collegues, I am writing to solicit nominations for SMBE Treasurer whose term will begin on January 1, 2024. This position is for a duration of three years. Council members play important roles in guiding the development of the society, soliciting and implementing programs that support our members, while enriching opportunities for young scientists from around the world. They also have a role in overseeing our two excellent journals (MBE and GBE) as well as our annual meeting, regional meetings, and satellite meetings. Nominations will be reviewed by the nominations committee and past and current council members are listed here :

https://www.smbe.org/smbe/ABOUT/Council.aspx .Nominations (self-nominations are welcome) should consist of a brief statement in support of your suggestion (why this nomination, what the nominee can bring to SMBE, work subject, other biographical information).

We ask the nominators to confirm explicitly that the person they are nominating has already confirmed their willingness to run for office.

Please send your nominations to Aoife McLysaght aoife.mclysaght@tcd.ie and Emmanuelle Lerat secretary.smbe@gmail.com by Monday, May 1, 2023.

We look forward to hearing from you! Sincerely yours, Emmanuelle Lerat Secretary of SMBE, on behalf of the Nominations Committee* *The Nominations Committee is composed as follows: Aoife McLysaght (Chair) Trinity College Dublin, Ireland. Deepa Agashe NCBS, Bangalore, India. Sandra Baldauf, Uppsala University, Sweden. Rosa Marï¿½a Fernï¿½ndez, Institute of Evolutionary Biology, Barcelona, Spain. Barbara Holland, University of Tasmania, Australia. Yuseob Kim, Ewha Womans University, South Korea. Wojciech Makalowski, University of Muenster, Germany. Juan C. Opazo, Universidad Austral de Chile, Chile. Emmanuelle Lerat (ex officio), University of Lyon, France.

Dr. Emmanuelle LERAT, Chercheuse CNRS, HDR

Laboratoire Biometrie et Biologie Evolutive Universite Claude Bernard - Lyon 1 UMR-CNRS 5558 - Bat. Mendel 43 bd du 11 novembre 1918 69622 Villeurbanne cedex France

Phone: 33+ 4.72.43.13.44+33 / +33 6.59.41.25.35 Fax: 33+ 4.72.43.13.88

https://lbbe-web.univ-lyon1.fr/en/node/5620 https://-www.researchgate.net/profile/Emmanuelle-Lerat

Emmanuelle Lerat <emmanuelle.lerat@univ-lyon1.fr>

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PredictingEvol PhilTransB

Royal Society Publishing has recently published a special issue of Philosophical Transactions B entitled Interdisciplinary approaches to predicting evolutionary biology compiled and edited by Justin Crocker, Joshua Payne, Aleksandra Walczak and Trisha Wittkopp and the articles can be accessed directly at www.bit.ly/PTB1877 A print version is also available at the special price of Â£40.00 per issue from sales@royalsociety.org

Felicity Davie Royal Society Publishing

T +44 20 7451 2647

The Royal Society 6-9 Carlton House Terrace London SW1Y 5AG http://royalsocietypublishing.org Registered Charity No 207043

Felicity.Davie@royalsociety.org Felicity.Davie@royalsociety.org

SMBE CallBestGraduateStudentPaper2022 Nominations

Call for Best Graduate Student Paper of 2022 Nominations

Dear SMBE Members,

SMBE is calling for nominations for Best Graduate Student Papers of 2022. These awards provide recognition for outstanding papers in both our SMBE journals,Molecular Biology & Evolution (MBE) and Genome Biology & Evolution (GBE). There will be one Best Graduate Student Paper award for each journal. Like last year, each journal may also name up to 3 'honorable mentions' for outstanding runners-up.

All articles published in the calendar year 2022 are eligible for nomination. This corresponds to papers published in the printed volume 39 in MBE and volume 14 in GBE. Please see below for additional information on eligibility.

Winners will receive a prize each of US$ 500, runners up a prize each of US$ 100.

Best Regards, Kateryna Makova President, SMBE

Eligibility & Nomination 1.All articles published in the two SMBE journals,Molecular Biology & Evolution and Genome Biology & Evolution(one prize for each journal), in the calendar year 2022 are automatically eligible if the final publication date of the nominated paper is not more than two years later than the date of the nominee's Ph.D.

2.The nominated graduate student must be the first author or joint first- author of the nominated paper.

3.An article and its first author can be nominated by anyone; self- nominations are acceptable.

4.A signed letter from the Ph.D. advisor, MSc advisor, or equivalent, confirming that the paper was part of the nominee's thesis or graduate work is required.

5.The deadline for submitting nominations is June 1, 2023.

How to Enter Please send the name of the nominee, a scan of the signed advisor letter, and the name of the paper for which the award is to be considered as a SINGLE PDFtosmbe.ks@kwglobal.com.

Please use the email subject line "MBE/GBE Best StudentPaperNomination", deleting journal name as appropriate.

smbe.contact@gmail.com

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PostDocs

ClemsonU Genetics

The Clemson University Center for Human Genetics announces the availability of two postdoctoral positions. These positions are supported by intramural funds and will support the career development of exceptionally talented individuals with interest in the genetics and/or comparative genomics of human complex traits and diseases. The postdoctoral fellows in these positions will be assigned a mentoring team, receive competitive compensation, and funds allocated to supplement their research efforts to develop an independent research program. They will be affiliated with the Department of Genetics and Biochemistry.

About the Center for Human Genetics:

The Center for Human Genetics is located in Self Regional Hall, a 17,000 square foot facility located on the campus of the Greenwood Genetic Center in Greenwood, SC. The facility is designed to promote a collaborative interactive environment with open office space for graduate students, postdoctoral fellows, and research staff. Active research projects in the Center investigate the roles of gene regulation, post-translational modification, and structural variation in common and rare diseases; develop more powerful models for genotype-phenotype prediction; and utilize systems genetics approaches in cellular and animal models to understand the genome-wide impact of genetic variants on molecular networks in health and disease in human populations.

In addition to individual laboratories, there is generous shared molecular biology space that allows for interaction and expansion of research programs. The laboratories are fully equipped for molecular biology, cell biology and functional genomics experimentation. The building contains a state-of-the-art genomics laboratory with ready access to a real-time quantitative PCR system, an Illumina NovaSeq sequencer, a PacBio Sequel II sequencer, an Oxford Nanopore sequencer, and a Chromium 10X system for single cell RNA profiling and ATACseq. Confocal microscopy is also available in a microscopy facility in the building.

The building contains a central bioinformatics facility to integrate statistical genetics and computational genomics approaches with projects that employ molecular genetics. The Center provides bioinformatics and genomics support by a dedicated Ph.D. level bioinformatician and a Ph.D. level molecular biologist. Self Regional Hall is connected to the Clemson University Palmetto Cluster supercomputing center via light fiber with immediate capability to advance up to a 100-gig service to support collaborative computational genomic modeling and bioinformatics analysis with the Greenwood Genetic Center, with Clemson University and with leading research universities across the United States. The supercomputer is estimated to represent the sixth largest in the United States and ranked 60th in the world. The Center for Human Genetics also has in-house computing capabilities with a high-performance computing cluster including GPU computing. The computer and data management resources support large scale genomic research manipulating massive data files.

There are extensive interactions between Clemson University's Center for Human Genetics and the adjacent Greenwood Genetic Center. This includes collaborative research projects, journal clubs, joint seminars, social events, and joint public outreach activities.

The Center has a dedicated passenger van for transportation between the main campus and the Greenwood facility. The Center for Human Genetics is centrally located within easy travel distance not only to Clemson University, but also to the University of South Carolina in Columbia and to the University of Georgia in Athens, Georgia, and is thus in an ideal position to foster interactions between multiple academic institutions.

Qualifications:

Applicants must have a Ph.D. degree in Genetics, or a related discipline and a history of research productivity documented by impactful publications.

Application Instructions:

Review of applications will begin on June 1 and continue until the positions are filled.

Applicants should submit the following items via interfolio (http://apply.interfolio.com/124192):

(1) A cover letter addressed to Dr. Trudy F. C. Mackay, FRS, Self Family Endowed Chair and director of the Center for Human Genetics, describing the motivation for applying for the position, a brief summary of research accomplishments, and career objectives.

(2) Curriculum vitae with list of publications

(3) Up to three reprints of publications

(4) An unofficial transcript

(5) The names and contact information of three references.

For information, contact Dr. Trudy Mackay, tmackay@clemson.edu.

Equal Employment Opportunity Statement:

Clemson University is an AA/EEO employer and does

not discriminate against any person or group on the basis of age, color, disability,

— / —

This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.-mcmaster.ca/~brian/evoldir.html

CPG Stockholm Computation-alDeepTimePalaeogenomics

POSTDOC POSITION - Computational palaeogenomics of deep-time palaeogenomic data - Three years (full-time employment) - Based at the Centre for Palaeogenetics in Stockholm - Application deadline: 19 May 2023

PROJECT DESCRIPTION The Centre for Palaeogenetics in Stockholm (https://palaeogenetics.com) has an opening for a 3-year postdoc position in computational palaeogenomics, affiliated with the Department of Zoology at Stockholm University. The postdoc project is aimed at developing novel computational tools to bioinformatically recover and analyze highly degraded DNA that is up to 2.5 million years old. The position is funded through the ERC Advanced Grant PrimiGenomes awarded to Love Dalï¿½n (https://palaeogenetics.com/ld). The goals of the postdoc project include development of improved methods for accurate alignment and authentication of extremely short DNA fragments, exploring variation graph alignment and variant calling approaches for several different Pleistocene taxa, and benchmarking the performance of the developed tools using comparisons of simulated and empirical data. The postdoctoral researcher will be a part of a larger team comprising several postdocs and PhD students investigating evolutionary changes in Early and Middle Pleistocene species using palaeogenomic methods. In addition, the postdoc will for the first 1-2 years have the opportunity to work alongside two experienced bioinformaticians from the National Bioinformatics Infrastructure Sweden (NBIS), who will assist in the methods development.

ASSESSMENT CRITERIA We are seeking candidates with a demonstrated track-record in bioinformatics, in particular those with experience in bash scripting and Linux-based high performance computing (HPC) systems. Moreover, documented skills in other programming languages, software development, as well as experience in computational genomics and analysis of ancient DNA data are important merits. Because the position involves integration within a larger team of researchers and students, personal skills such as good collaborative and analytical skills, ability to work independently and take own initiatives, and a well-developed sense of responsibility are considered additional merits. A strong ability of oral and written communication in English is also considered a merit.

RESEARCH ENVIRONMENT The postdoc will be based at the Centre for Palaeogenetics (CPG) in Stockholm, which is a newly established research centre with modern offices and meeting areas, state-of-the-art laboratory facilities, and access to the cutting-edge Swedish NAISS bioinformatics cluster. CPG is jointly funded by Stockholm University and the Swedish Museum of Natural History. The centre is a multidisciplinary research environment with staff from departments in biology, archaeology, and geology, who are all dedicated to analyses of ancient and modern DNA to investigate questions regarding the prehistory of humans and wild organisms. CPG has a staff of c. 40 persons, including 14 PhD students and 11 postdocs. It is an international workplace, with the current staff coming from 17 different countries. Located on the Stockholm University campus, CPG is part of a vibrant genomics community in Stockholm, by many considered one of the most beautiful cities in the world.

HOW TO APPLY More information and link to application system is here: https://www.su.se/-english/about-the-university/work-at-su/available-jobs?rmpage=job&rmjob=20856&rmlang=UK Love Dalï¿½n <love.dalen@zoologi.su.se>

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CzechRepublic GenomicsClimateAdaptation

A postdoctoral position for up to 2.5 years is available in population genomics and climate change adaptation at the Czech Academy of Sciences.

The postdoctoral fellow will join the research team of Dr. Petr Kotlik at the Institute of Animal Physiology and Genetics, which studies animal responses to climate change with the goal of using information about the

adaptive capacity of species in the past to predict how they will cope with climate change in the future.

The applicant will be expected to develop their own project within the context of our lab.

Lab website: https://www.iapg.cas.cz/en/-laboratories/lme/Research ResearchGate: https://-www.researchgate.net/profile/Petr_Kotlik Research areas include (1) identifying postglacial population history and genetic adaptations in response to climate change using large SNP datasets and genomic data, (2) identifying how differential resistance to oxidative stress mediated by hemoglobin and other physiological systems contributes to adaptation to different environmental conditions, and (3) using predictive models of future climate to assess the importance of past adaptations for future resilience.

The available research infrastructure will allow these questions to be investigated from multiple perspectives and at multiple levels, including biogeography/phylogeography, population genomics, genetic-environmental associations, gene expression, protein structure and function, and physiology.

Representative publications from the lab can be found below.

Dr. Kotlik$B!G(Bs lab collaborates with scientists in Europe and the USA, and the postdoctoral fellow will have the opportunity to carry out a secondment at a collaborating institution.

The ideal candidate will have solid publications in peer-reviewed journals and a background in population/landscape genetics/genomics or physiology/oxidative stress biology.

We are looking for a candidate who is enthusiastic, highly motivated, and willing to work both independently and as part of a team.

The location of the Institute allows for living in the historic town of Melnik or in Prague.

We expect applicants of any nationality to have good written and oral communication skills in English.

For inquiries about this position, please email kotlik@iapg.cas.cz. Official information about the position, application process, and eligibility criteria can be found below.

Representative publications: Escalante et al. (2022) Genic distribution modelling predicts adaptation of the bank vole to climate change. Communications Biology 5, 981. https://doi.org/10.1038/s42003-022-03935-3 Kotlik et al. (2022) The bank vole (Clethrionomys glareolus) as a model system for adaptive phylogeography in the European theater. Frontiers in Ecology and Evolution 10, 866605. https://doi.org/10.3389/-fevo.2022.866605 Markova et al. (2020) High genomic diversity in the bank vole at the northern apex of a range expansion: The role of multiple colonizations and end$B!>(Bglacial refugia. Molecular Ecology 29, 1730-1744. https://doi.org/10.1111/mec.15427 Kotlik et al. (2014) Adaptive phylogeography: functional divergence between haemoglobins derived from different glacial refugia in the bank vole. Proceedings of the Royal Society B: Biological Sciences 281, 20140021. https://-doi.org/10.1098/rspb.2014.0021 Kotlik et al. (2006) A northern glacial refugium for bank voles (Clethrionomys glareolus). Proceedings of the National Academy of Sciences of the United States of America 103, 14860-14864. https://doi.org/10.1073/pnas.0603237103 *** Application Process *** Applications should be submitted through the online application system of the MERIT Postdoctoral Fellowship Programme (MSCA-COFUND) at: https://meritcb.eu Applicants must hold a doctoral degree by the closing date of the call (July 3, 2023). There is no age limit. Researchers who have successfully defended their dissertation but have not yet been officially awarded a doctorate may also apply.

The applicant must not have resided or carried out their main activity (work, study, etc.) in the Czech Republic for more than 12 months in the three years preceding the application deadline. The appointed postdoctoral fellow must change their residence to the Czech Republic.

*** Benefits *** The fellowship includes a mobility allowance, a family allowance (if applicable), a travel allowance, research costs, and may include a special needs allowance (financial support for researchers with disabilities). The total value of the fellowship is ?5,680/month.

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DukeU MycorhizalGenetics

Postdoc available: Genetics of mycorrhiza-forest tree interactions, Duke University

The Vilgalys Mycology Lab at Duke University seeks a postdoctoral researcher to study genetics of plant-fungal

interactions between Populus (poplar) and its root mycobiome. We study genetics and evolution of symbiotic interactions between forest trees and fungi using a variety of molecular-based approaches. These studies take advantage of extensive resources developed at Oak Ridge National Laboratory (ORNL) for GWAS and QTL analysis of Populus, as well as extensive genomics resources for diverse symbiotic endophytic and mycorrhizal fungi. This study is part of a DOE-sponsored collaboration among plant/fungal biologists in the USA (ORNL) and France (INRAE) who study Populus-microbiome interactions (http://pmiweb.ornl.gov/). As a team-member, you will have the flexibility to explore your interests within the broader scope of plant/fungal genomics.

Major Duties/Responsibilities: Design, conduct and interpretation of plant-fungal inoculation experiments using Populus half-sib crosses and GWAS populations inoculated with AM, ECM, and endophytic fungi; analysis of plant-fungal interactions using transcriptomics and proteomics; lead and contribute to the development of scientific manuscripts and proposals. Research is facilitated by a professional environment using state-of-the-art equipment/facilities for genomics, microbiology, and plant biology with excellent technical and development support at Duke University and ORNL.

Qualifications Required: Ph.D. degree in plant or fungal biology including prior experience in metagenomics, bioinformatics, GWAS, and related fields. Applicants should have prior experience with experimental design and implementation of genetic studies including a strong track record of peer-reviewed publications.

Qualifications Preferred: Priority will be given to applicants with a successful history of interdisciplinary, integrative, and innovative research in this area. Interested applicants should send a cv, research statement, and names of 3 references (preferably in a single pdf) to Dr. Rytas Vilgalys, fungi@duke.edu. The position is available immediately and will remain open until a suitable candidate has been hired. For more information on see: http://pmiweb.ornl.gov/ and http://sites.duke.edu/-vilgalyslab/ Rytas Vilgalys <fungi@duke.edu>

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EPFL CoralConservation

Postdoctoral researcher in coral microbiology and bacterial transformation

EPFL

The Laboratory for Biological Geochemistry at EPFL directed by Prof. Anders Meibom is looking for a highly skilled postdoctoral researcher.

Motivation and mission:

Tropical coral reef ecosystems are in global decline due to the effects of global climate change. At the center of this ecosystem collapse is the breakdown of symbiotic interactions within the coral holobiont, the ecological unit comprising the cnidarian host and its microbial associates. In recent years, it has been suggested that the functions and metabolic pathways of diverse symbiont bacterial communities play a major role in the resilience of coral holobionts to thermal stress. Within this project, funded by the Swiss National Science Foundation, we wish to better understand the metabolic contribution of key bacterial functional groups and, with novel genetic and molecular tools, facilitate the localization and characterization of these bacterial communities within the coral holobiont.

The candidate will adapt state-of-the-art tools to genetically transform selected bacterial strains for correlative imaging approaches to visualize the distribution and metabolic activity of bacteria in the intact holobiont. Ultimately, this will permit the study of metabolic interkingdom interactions and their role in coral holobiont functioning.

The Laboratory for Biological Geochemistry of Prof. Anders Meibom investigates biological processes at the subcellular level using cutting-edge micro-analytical tools. To this end, we use a suite of isotopic labeling techniques in combination with micro- to nano-scale analytical instruments, including Transmission electron microscopy (TEM), Secondary electron microscopy (SEM), and Ion microprobe Secondary Ion Mass spectroscopy (SIMS). Among the diverse range of projects in our laboratory, we use these technologies to study metabolic interaction between cnidarians (e.g. corals, sea anemones, and jellyfish) and their symbiotic partners, such as microalgae and bacteria.

The successful candidate will also work with colleagues in the Environmental Microbiology Laboratory (EML) at the EPFL, and will be advised by Prof. Anders Meibom and Jr. Prof. Claudia Pogoreutz (CRIOBE; University of Perpignan Via Domitia, France).

Keywords and concepts:

Bacterial isolation from reef-building corals

Maintenance and characterization of bacterial cultures

Construction of genetically transformed bacterial strains

Coral microbiome manipulation experiments

Histological preparation of samples for correlative fluorescence and NanoSIMS imaging applications

Your Profile:

A PhD in a relevant discipline (Microbiology, marine Biology, or related; preferentially less than

2 years after obtaining the PhD degree

Strong experience in bacterial transformation techniques

Strong experience in regular benchwork in microbiology and molecular biology

Field-work experience or willingness to perform field-work on tropical coral reefs

Experience with coral husbandry and/or manipulative aquarium experiments is an asset

Experience with optical imaging techniques and/or NanoSIMS analysis or willingness to obtain these skills at the LGB

Excellent oral and written English skills

French skills are an asset

Scientific writing skills as reflected in an excellent publication record

International experience in an asset

We offer:

Opportunity to work on multidisciplinary and cutting-edge projects using microbial transformation and imaging, including NanoSIMS analysis

Opportunity to access state-of-the-art research facilities and laboratory resources

A competitive Swiss postdoctoral salary

EPFL is an international and top ranking engineering university, offers a dynamic, stimulating, interdisciplinary, international and friendly working environment, a broad range of scientific training and networking events, and also hosts a vibrant entrepreneurial community

EPFL is an equal-opportunity employer. Candidates will be recruited based on merit

Start date:

As soon as possible, applications will be reviewed starting mid-April.

Term of employment:

Fixed-term (CDD)

Work rate:

100 %

Duration: 1 year, renewable up to 3 years

Your application should include:

Cover letter

Full CV including publication record

Contact information of 2 people who can provide letters of reference.

Contact: Please submit your application to Mme Michelle Wi¿½lti (michelle.waelti@epfl.ch).

Claudia Pogoreutz <claudia.pogoreutz@univ-perp.fr>

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Freiburg TreeAdaptation

The Professorship of Forest Genetics offers a position for a Postdoctoral researcher (f/m/d)

* Application deadline: 05.05.2023 * Start-date: At the earliest possible date. * Fulltime position

Description In the Eva Mayr-Stihl Professorship of Forest Genetics at the Albert-Ludwigs-Universitï¿½t Freiburg, we are investigating the genomic and epigenetic basis of adaptation and acclimation in temperate and tropical tree species. We jointly analyze genetic and genomic data sets with phenotypic and environmental data. Our research is carried out in natural populations as well as in greenhouses and climate chambers.

Project description

In the DFG-funded Research Unit “PhytOakmeter” we seek to investigate patterns and mechanisms of acclimation and adaptation to drought and above- and belowground herbivory using a clonal oak as a model system (https://www.uni-marburg.de/en/fb17/-phytoakmeter).

We are looking for a postdoctoral researcher for subproject 1, where we will investigate the role of epigenetics for acclimation in the Quercus robur clone. In controlled experiments, we will expose clonal oaks to combinations of drought and herbivore stress, and investigate the reaction of trees at the level of DNA methylation, TE activation, and chromatin modifications.

For this purpose, the successful applicant will generate and analyze whole genome bisulfite sequencing data,

and identify TE activation from RNAseq and mobilome sequencing data. Further, chromatin accessibility will be studied using ATAC-seq.

The experimental work will be carried out in Ecotron facilities in Bad Lauchstï¿½dt and Freiburg. The post-doctoral researcher will support the set-up and data collection in the Ecotron in Freiburg. Moreover, she/he will work on additional experiments to study epigenetic effects of propagation from different bud types and of grafting in experiments in greenhouses and climate chambers in Freiburg. In the final phase, the successful applicant will be involved in the data synthesis of the research unit.

The subproject is tightly integrated into the research unit and will be carried out in close collaboration with Prof. Dr. Lars Opgenoorth (University of Marburg) and his team.

Your profile

You have an MSc and Ph.D. in biology, plant ecology, bioinformatics, or similar fields with excellent results. You enjoy science and are driven by curiosity. You have experience with experimental work with plants, ideally with trees. Research experience in forest ecology, tree physiology, genetics, or genomics and explicitly, with the bioinformatic analysis of WGBS data and regarding TEs is advantageous. We expect a very good knowledge of data handling and statistical data analysis (in R and Unix environments) as well as a good publication record. Experience with laboratory work (DNA extraction and library preparation) is advantageous. You have good communication and team skills, and a meticulous way of working.

Your application

please check the university website for details on the application process: https://uni-freiburg.de/university/-jobs/00002951/ Prof. Dr. Katrin Heer Forest Genetics

Eva Mayr-Stihl Stiftungsprofessur fiï¿½r Forstgenetik Albert-Ludwigs-Universitiï¿½t Freiburg Fakultiï¿½t fiï¿½r Umwelt und Natiï¿½rliche Ressourcen Bertoldstraiï¿½e 17, 79098 Freiburg i. Br., Germany

Phone: +49 761 203 3647 www.forestgenetics.uni-freiburg.de Katrin Heer <katrin.heer@forgen.uni-freiburg.de>

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Genoscope France AlgaePopulationGenomics

Postdoc: Population genomics and adaptation of the micro-algae /Pelagomonas

Genoscope/CEA, Evry, France

SCIENTIFIC CONTEXT:**Marine phytoplankton account for more than 45% of Population genomics and adaptation of the micro-algae net primary production on Earth and play an essential role in supplying organic matter to marine food webs. A global decline of phytoplankton biomass has been reported over the past century (1% of chlorophyll-a concentration per year) leading to a decrease of net primary production in many oceanic regions (Boyce, Lewis, et Worm 2010). It is challenging to predict the potential capacity of phytoplanktonic organisms to acclimate (i.e. short-term phenotypic plasticity) or adapt (longer-term genomic compensation) to rising temperatures and variations in nutrient availability. In this project, we propose to use /Pelagomonas calceolata/, which is a cosmopolitan and abundant pico-phytoplanktonic (<3Î¼m cell size) member of the ecologically important Pelagophyceae class, as a model organism to study the adaptation of open-ocean phytoplankton to various environmental conditions. In a recent study, we assembled the genome of /P. calceolata/ and used it to evaluate the relative abundance of /P. calceolata/ in environmental datasets (/Tara/ Oceans). We observed that this species is one of the most abundant eukaryote in the open oceans with an abundance driven by high temperature and low-iron conditions (Guérin et al. 2022). In addition, we observed important variations of gene expression for many genes suggesting that this species has developed specific molecular mechanisms to rapidly modulate gene expression in response to physico-chemical variations.

PROJECT:**This 2-years PostDoctoral project aims to resolve the population structure of /P. calceolata/ in the oceans, discover the key genes involved in /P. calceolata/ adaptation and compare the physiology of different cultivated /P. calceolata/ strains. Using bioinformatics approaches, the population structure,the identification of structural variations (insertion/deletions, gene duplications ...) and SNPs from/in situ/ data will bring several hypotheses on the importance of specific genes on /P. calceolata/ adaptation. In this project, we suggest to complement /in situ/ results with the large collection

of strains collected in several oceans and maintained in the Roscoff Culture Collection. Different strains of /P. calceolata/ could be cultivated in the lab to observe the gain or loss of fitness under different culture conditions and study the adaptation at the transcriptomic, protein and/or metabolomic levels.

Boyce, Daniel G., Marlon R. Lewis, et Boris Worm. 2010. ≪ Global Phytoplankton Decline over the Past Century ≫. Nature 466(7306):591–96. doi: 10.1038/nature09268. Guérin, Nina, et al. 2022. ≪ Genomic Adaptation of the Picoeukaryote Pelagomonas Calceolata to Iron-Poor Oceans Revealed by a Chromosome-Scale Genome Sequence ≫. Communications Biology 5(1):983. doi: 10.1038/s42003-022-03939-z. Pesant, Stéphane, et al. 2015. ≪ Open Science Resources for the Discovery and Analysis of Tara Oceans Data ≫. Scientific Data 2(1):150023. doi: 10.1038/sdata.2015.23.
* *

TEAM: The candidate will work in the Laboratory of Genomic Analysis of Eukaryotes (LAGE), part of the Genoscope at Evry (91000) in France, in a team of 20 researchers and students currently working on several /Tara/ projects (https://lage.genoscope.cns.fr/). The project will lead to collaborations with several scientific teams of the /Tara/ Oceans consortium (https://-fondationtaraocean.org/en/home/).

PROFIL: -PhD in biology (genomic or bioinformatics). -A strong background in bioinformatics (Metagenomics, Variant analysis, large datasets studies). -A sound knowledge of cellular biology, genomic and evolution as well as biostatistics. -Experience in marine genomics/biology is a plus.

CONTRACT:The position is funded by the ANR (PelagoAdapt project https://anr.fr/Projet-ANR-22-CE20-0012). The contract should start before October 2023 for 24 month. The salary is based on the CEA salary grid and depends of qualifications and experience.

APPLICATIONS:Send CV and application letter (in French or English) by email to Quentin Carradec: qcarrade@genoscope.cns.fr before 1st Mai 2023.

Population genomics and adaptation of the micro-algae

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GeorgiaTech SocialSystemEvolution

Postdoctoral positions studying genomics, evolution, behavior, or physics of social systems

The Goodisman Lab at the School of Biological Sciences at Georgia Tech seeks a postdoctoral fellow interested in studying questions focused on social behavior. The successful candidate would study the causes and consequences of sociality using genomic, epigenetic, behavioral, computational, physical, or robotic approaches. Thus candidates with experience in genetics, genomics, evolution, behavior, insect science, physics, robotics, or computational biology may be appropriate. The candidate would be encouraged to develop an independent research direction that aligns with general research programs in the lab. Visit https://-www.goodismanlab.biology.gatech.edu/ and contact Dr. Goodisman at mg225@gatech.edu for more information.

Interested applicants should email a preliminary application to Dr. Goodisman including (1) A cover letter describing relevant experience, qualifications, and interests, (2) A curriculum vitae, and (3) The names and contact information of three references. Review of applications will begin May 1, 2023 and continue until a suitable candidate is identified.

Michael A D Goodisman

Professor School of Biological Sciences Georgia Institute of Technology Cherry Emerson Bldg A124 310 Ferst Drive Atlanta, GA 30332-0230 United States of America

email: michael.goodisman@biology.gatech.edu lab webpage: http://www.goodismanlab.biology.gatech.edu/ office: 404-385-6311

“Goodisman, Michael D” <michael.goodisman@biology.gatech.edu>

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LundU EvolutionaryConservationGenomics

Postdoctoral position in evolutionary and conservation genomics at Lund University, Sweden We are seeking a postdoctoral researcher for a 2 year project (that can be extended to 3 years) on evolutionary and conservation genetics based at Lund University.

The project will use an interdisciplinary approach combining (paleo)genomics, population genetics, quantitative genetics and computer simulations. Large datasets of historical/modern genomes, chromosome-level assemblies, and timeseries fitness data for several endangered bird species are available. The main question we seek to answer is the role of genomic erosion during and after population bottlenecks on species viability and extinction risk. However, the candidate will have freedom to pursue other questions of their interest within evolutionary genomics at large.

More details here:https://lu.varbi.com/en/what:job/-jobID:614433/ Hernan Eduardo Morales Villegas <hernanm@sund.ku.dk>

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Montpellier ForestConservation

Postdoctoral Researcher Conservation rainforests Montpellier / France

24 month postdoc on " "Multidimensional conservation of global rainforest diversity: Extinction risk and loss of evolutionary history within the pantropical family Annonaceae" "

Research Area and Project Description: The ERC Consolidator project "GLOBAL" aims to unravel the evolutionary history and diversification of tropical rain forests (TRF) at a global scale. The project focuses on the pantropical Annonaceae plant family, an important component of TRF worldwide with around 2500 species. During the project we aim to sequence all (ca. 2500, one individual per species) species of the family from silicagel dried and herbarium specimens. For each species around 300 Annonaceae-specific exons and the angiosperm universal exons (353) will be sequenced. This dataset will provide one of the first robust and near-complete phylogenies of any major pantropical plant families to date. Additional data will be complied documenting the family's morphological, geographical and chemical diversity. These datasets will be used to test numerous TRF evolutionary hypotheses and estimate the impact of extinction on Annonaceae diversity at a global scale.

Within this project we seek a highly motivated postdoctoral researcher to lead multidimensional analyses of large scale datasets surrounding Annonaceae diversity. The datasets range from a near complete species level dated phylogeny of the whole Annonaceae family (ca. 2300 tips) used to estimate phylogenetic diversity; ~30 morphological trait database used to infer functional diversity; Near Infra Red (NIRs) spectra used to infer chemical diversity; and spatial distribution of all Annonaceae species used to infer spatial diversity. All datasets cover the full geographic distribution of this pantropical family. Most of the data is already available (generated within different post doc or PhD ongoing projects). The postdoc is expected to contribute ideas and concepts to the project and lead at least two high-quality papers in this research area, contribute to the project's public outreach, as well as collaborate with other team members, including students (from across the GLOBAL network) and sharing skills (data analysis training etc.). The post doc will become part of the Macroevolution in Montpellier group ("MiM", created by Fabien Condamine and Thomas Couvreur), and will be expected to help animate some of the monthly meetings.

Qualifications and Specific Competences: Applicants must have a PhD degree in evolution, spatial analyses of diversity, phylogenetics, comparative methods, functional diversity or equivalent. Proven experience with phylogenetic analyses (i.e. be able to estimate EDGE2 statistics), functional diversity estimates and/or spatial analysis of biodiversity data is requested; experience in handling large and multidisciplinary datasets (> 200 species/OTUs) is a strong advantage. Experience with modeling extinction risk in the future is an advantage. Strong skills in bioinformatics and being familiar with Linux/cluster management and R and/or Python languages are expected. The successful candidate is expected to have excellent collaborative skills (be able to interact with numerous colleagues and students), be effective in publishing, and have good skills in English (oral and written). International applicants who do not have English as their first language must prove strong

English language writing skills and fluency. The post doc also needs to be independent and forward thinking as several team members are based abroad for part of the project. Most meetings and interactions are done via zoom and in English. Finally, the post doc will be expected to present results at international conferences. Knowledge of French is a plus for day to day living in Montpellier, but not required.

Supervisors and collaborators: The post doc will be directly supervised by the project PI Dr. Thomas L.P. Couvreur (leader of the couvreurlab.org group and based in Montpellier from August 2023). In addition, the postdoc will join a multidisciplinary team with strong skills in population genetics, modeling, and phylogenetic reconstruction (DYNADIV). GLOBAL is highly collaborative with numerous collaborators from across the globe, especially in tropical countries. This will provide opportunities for the post doc to interact with a wide range of researchers, especially for interpretation of results.

Place of Employment and Work: The place of employment and work is "Institut de Recherche pour le Développement" (IRD), UMR DIADE, DYNADIV team, 911 Avenue Agropolis, Montpellier France. Montpellier is a pleasant Mediterranean town with a vibrant and internationally recognized research community, especially in evolutionary biology (University of Montpellier).

Contact: All questions about the project or the employment conditions, can

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Montpellier RainforestMacroevolution

Postdoctoral Researcher Macroevolution rainforests Montpellier / France

2-yr postdoc on "Testing major diversification models of tropical rain forest evolution at a global scale"

Research Area and Project Description: The ERC Consolidator project "GLOBAL" aims to unravel the evolutionary history and diversification of tropical rain forests (TRF) at a global scale. The project focuses on the pantropical Annonaceae plant family, an important component of TRF worldwide with around 2500 species. During the project we aim to sequence all (ca. 2500, one individual per species) species of the family from silicagel dried and herbarium specimens. For each species around 300 Annonaceae-specific exons and the angiosperm universal exons (353) will be sequenced. This dataset will provide one of the first robust and near-complete phylogenies of any major pantropical plant families to date. This dataset will be used to test numerous TRF evolutionary hypotheses and estimate the impact of extinction on Annonaceae diversity at a global scale.

Within this project we seek a highly motivated postdoctoral researcher to undertake phylogenomic, molecular dating and diversification analyses of this large genomic dataset. The GLOBAL dataset is partly already available (sequencing ongoing, and the dated phylogeny will already be available to work with) and no lab work or sampling in herbaria is required. The postdoc is expected to contribute ideas and concepts to the project and lead at least two high-quality papers in this research area, contribute to the project's public outreach, as well as collaborate with other team members, including students (from across the GLOBAL network) and sharing skills (data analysis training etc.). The post doc will become part of the Macroevolution in Montpellier group ("MiM", created by Fabien Condamine and Thomas Couvreur), and will be expected to help animate some of the monthly meetings.

Qualifications and Specific Competences: Applicants must have a PhD in evolution or phylogenetics or equivalent. Proven experience with phylogenetic analyses, molecular dating and macro evolutionary diversification analyses or comparative methods; experience in handling large datasets (> 200 species/OTUs) is a strong advantage. Strong skills in bioinformatics and being familiar with Linux/cluster management and R and/or Python languages are expected. The successful candidate is expected to have excellent collaborative skills (be able to interact with numerous colleagues and students), proven abilities to publish, and have good skills in English (oral and written). International applicants who do not have English as their first language must prove strong English language writing skills and fluency. Finally, the post doc will be expected to present results at international conferences. The post doc also needs to be independent and forward thinking as several team members are based abroad for part of the project. Most meetings and interactions are done via zoom and in English. Knowledge of French is a plus for day to day living in Montpellier, but not required.

Supervisors and collaborators: The post doc will be directly supervised by the project PI Dr. Thomas L.P. Couvreur (leader of the couvreurlab.org group and based in Montpellier from August 2023). Dr. Fabien Condamine (ISEM, CNRS, Univ Montpellier) will also be implicated in the supervisor. In addition, the postdoc will join a multidisciplinary team with strong skills in population genetics, modeling, and phylogenetic reconstruction (DYNADIV). GLOBAL is highly collaborative with numerous collaborators from across the globe, especially in tropical countries. This will provide opportunities for the post doc to interact with a wide range of researchers, especially for interpretation of results.

Place of Employment and Work: The place of employment and work is "Institut de Recherche pour le Développement" (IRD), UMR DIADE, DYNADIV team, 911 Avenue Agropolis, Montpellier France. Montpellier is a pleasant Mediterranean town with a vibrant and internationally recognized research community, especially in evolutionary biology (University of Montpellier).

Contact: All questions about the project or the employment conditions, can be directly addressed to Thomas Couvreur, thomas.couvreur (at) ird.fr or tlpcouvreur2 (at) gmail.com Please specific "postdoc macroevolution" in the title

Application deadline: 15th May 2023 (23.59 Paris time).

Starting date: 1st September ?¿' 1st October 2023 at the latest.

Application procedure: A short list of applicants will be selected by a committee shortly after the deadline for applications. An interview will be planned for short listed applicants, only via zoom, tentatively planned for end May-June. Once the recruitment process is completed a final letter of rejection is sent to the deselected short listed applicants. The application must be in English and include as separate PDF files: a

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

MortonArboretum OakPopulationGenomics

The Morton Arboretum's Plant Systematics Lab and Herbarium (http://systematics.mortonarb.org) seek a highly motivated individual to conduct population-level genomic and phylogenomic research on bur oak (Quercus macrocarpa) and related oaks of eastern North America. The research is part of a US-China international collaboration funded by the US NSF, investigating the effects of genomic diversity, functional diversity, phylogenetic diversity, and introgressive hybridization on oak symbiont communities. In addition to interacting with the collaborative team in the Center for Tree Science at The Morton Arboretum, the postdoctoral researcher will also be supported by a diverse network of partners at Duke University, Fort Collins Science Center, U of MN, and U of OK; and have opportunities to work with collaborators at South China Botanical Garden and Institute of Botany, Chinese Academy of Sciences.

NSF project summary: https://www.nsf.gov/awardsearch/showAward?AWD_ID=-3D2129281&HistoricalAwards=false The Postdoctoral Researcher will be based in the Herbarium / Systematics Lab and Center for Tree Science of The Morton Arboretum (https://mortonarb.org/science/center-for-tree-science/). The Arboretum is a 100 year-old, world-renowned nonprofit botanic garden dedicated to the study, growth, and conservation of trees. The Herbarium / Systematics Lab is a vibrant research community focused on plant biodiversity of the northern temperate zone, with a strong focus on trees and forested ecosystems. The Center for Tree Science (CTS) is a research center based within the Arboretum. CTS advances tree science expertise, builds collaborative scientific networks and resources, and trains the next generation of tree champions. Both the Herbarium and CTS work in collaboration with many other divisions of the Arboretum, including Chicago Region Trees Initiative, Global Trees Campaign, Living Collections, Learning and Engagement, Plant Clinic, Plant Health Care, and Natural Resources. The Center for Tree Science also acts as a hub for scientific collaboration, bringing together tree scientists from around the world to catalyze integrated, multidisciplinary tree science research to benefit trees and people.

The Postdoctoral Researcher will also have opportuni-

ties to connect with the broader evolutionary biology community of the Chicago Region, including potential colleagues at The Field Museum, University of Chicago, University of Illinois at Chicago, and Chicago Botanic Garden.

This position begins as early as August, 2023. Beginning salary is $60,000 to $62,000 commensurate with experience. The position comes with full benefits.

Please apply online at: https://careers.hireology.com/-themortonarboretum/1244052/description .Applications will be reviewed until the position is filled.

The Morton Arboretum is a champion for diversity, supporting a culture of inclusion that attracts, inspires, and engages people to achieve success. The Arboretum is committed to hire and develop employees based on job-related qualifications irrespective of race, religion, color, national origin, sex, sexual orientation, gender identity, age, disability, or veteran status. To increase diversity in professions related to the public garden realm, we encourage applications from underrepresented minorities, persons with disabilities, and veterans.

Please send all inquiries to ahipp@mortonarb.org.

Andrew Hipp, Director of the Herbarium and Senior Scientist in Plant Systematics

The Morton Arboretum

4100 Illinois Route 53

Lisle, IL 60532-1293

http://systematics.mortonarb.org *Andrew Hipp, PhD *| Director of the Herbarium and Senior Scientist in Plant Systematics Lecturer, Committee on Evolutionary Biology, University of Chicago The Morton Arboretum | 4100 Illinois Route 53 | Lisle Illinois 60532 T 630 725 2094 | ahipp@mortonarb.org | systematics.mortonarb.org

ahipp@mortonarb.org

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NatlUSingapore InvertebrateAdaptation

Postdoctoral Fellow in Ecology and Evolution, National University of Singapore

Dr Eunice Tan and A/Prof Daiqin Li at the Department of Biological Sciences, National University of Singapore seek an independent, motivated postdoctoral researcher. The successful candidate would examine the evolution of traits and behaviour of insects/spiders in response to environmental variables. Thus, they should demonstrate experience in: ecology,behaviour,evolution,field work and data analyses.

The postdoctoral position is for three years. We anticipate a start date of August 2023. The successful applicant is expected to have completed a Ph.D. in Behavioural Ecology, Evolution or a related field prior to starting.

Interested applicants should submit: 1. A cover letter stating relevant experience, qualifications and interests 2. Curriculum Vitae 3. Names and complete contact information for three references. We will seek reference letters upon shortlisting candidates.

Applications and enquiries should be submitted to: Eunice Tanynctje@nus.edu.sg

Applications should be received by 15 May 2023.

Eunice Tan <eunice.t@gmail.com>

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ORISE WolfConservationGenomics

A fellowship opportunity is available with the US Department of Agriculture (USDA) Forest Service (USFS) located in Missoula, Montana starting June 2023. Under the guidance of a mentor, the participant will contribute to projects in collaboration with the USFS and Alaska Department of Fish and Game using genomics tools to model the consequences of inbreeding and management actions to recover genetic diversity for wolves and other mammals.

Qualifications

The qualified candidate should have received a doctoral degree in one of the relevant fields, or be currently pursuing the degree with completion by May 31, 2023.

* Training in evolutionary biology, conservation biology, genetics, genomics, ecology bioinformatics and/or statistical genetics * Familiarity with molecular tools such as whole genome resequencing and population genetics would be useful * Experience working with diverse, non-academic partners including natural resource professionals working in state and Federal government,

non-governmental organizations, and tribal governments * Desire to conduct scientifically-rigorous research with conservation and management applications

This opportunity is available to U.S. citizens, Lawful Permanent Residents (LPR), and foreign nationals. Non-U.S. citizen applicants should refer to the Guidelines for Non-U.S. Citizens Details page of the program website for information about the valid immigration statuses that are acceptable for program participation. This program, administered by ORAU through its contract with the U.S. Department of Energy (DOE) to manage the Oak Ridge Institute for Science and Education (ORISE), was established through an interagency agreement between DOE and USFS. Applicants can apply at the link below.

https://www.zintellect.com/Opportunity/Details/-USDA-USFS-2023-0125 Please feel free to email Alex Fraik (alexandra.fraik@usda.gov) with any questions.

"Fraik, Alexandra - FS, MT" <Alexandra.Fraik@usda.gov>

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Slovenia SexualSelection

Dear fellow researchers!

Where will your career take you after your doctorate? What will you delve into? Are you interested in sexual selection? How can the sexes differ so much in looks and behaviour even though they share most of their genome? We plan to investigate the molecular and developmental basis of extreme sexual size dimorphism in a spider species where females are on average 75 times heavier than males! NOTE This species has a peculiar mating behaviour in which the males break their reproductive organs into the females' copulatory openings thereby plugging them. And females often cannibalize them during copulation! Still reading? Please get in touch (email: simona.kralj-fiser@zrc-sazu.si) if you want to apply for a Marie Skłodowska-Curie Actions Postdoctoral Fellowships with me:

https://marie-sklodowska-curie-actions.ec.europa.eu/-calls/msca-postdoctoral-fellowships-2023 Deadline for submitting proposals: 13.9.2023

Sincerely, Simona Kralj-FiÅer, PhD., Senior Research Associate Institute of Biology, Research Station Barje ZRC SAZU, Zagorica 20, SI-1292 Ig, P +386 1 4706 333, www.zrc-sazu.si/en https://www.simonakraljfiser.com/ Sample literature Kralj-FiÅer, S., Kuntner, M., & Debes, P. V. (2022). Sexual conflict mitigation via sex-specific trait architecture.bioRxiv, 2022-11.

Ået, J., Turk, E., Golobinek, R., LokovÅek, T., GregoriÄ, M., Lebrón, S. G. Q., ... & Kralj-FiÅer, S. (2021). Sex-specific developmental trajectories in an extremely sexually size dimorphic spider.The Science of Nature,108, 1-12.

Lissowsky, N., Kralj-FiÅer, S., & Schneider, J. M. (2021). Giant and dwarf females: how to explain the fourfold variation in body size and fecundity in Trichonephila senegalensis (Aranea: Nephilidae).Biological Journal of the Linnean Society,133(4), 1016-1030.

KraljâÅer, S., Schneider, J. M., Kuntner, M., Laskowski, K., & Garciaâ, F. (2021). The genetic architecture of behavioral traits in a spider.Ecology and evolution,11(10), 5381-5392.

Quiñones-Lebrón, S. G., Kuntner, M., & Kralj-FiÅer, S. (2021). The effect of genetics, diet, and social environment on adult male size in a sexually dimorphic spider.Evolutionary Ecology,35(2), 217-234.

Nik LupÅe <nik.lupse@zrc-sazu.si>

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TelAvivU ParasiteAdaptation

How do parasites cope with extreme climate?

Postdoc position in Evolutionary ecology.

The position is available in the research group of Prof. Frida Ben-Ami, from Tel Aviv University, Israel (www.ben-ami.com), starting October 2023.

The research focuses on understanding the consequences of global warming and extreme weather conditions on the spread of diseases and the ecological significance of these changes. The work will be carried out using the model system Daphnia-microparasites (bacteria and microsporidia).

The successful candidate will use a combination of experimental evolution, field approaches and molecular work to generate new and refined predictions regarding the virulence of parasites that spread into new habitats.

Requirements

- Creative thinking

- PhD degree in biology

- Background in evolutionary biology or ecology - an advantage

- Analytical skills and good knowledge in statistics

- Communication and writing skills in English

- Good work ethics

Please send your application by email (all material in one PDF) to Frida Ben-Ami (frida@tauex.tau.ac.il). Applications should include a CV, a list of publications and a statement about research interests (motivation letter). Please provide names and email addresses of two persons who are willing to write a letter of recommendation. Application deadline is April 30, 2023.

Prof. Frida Ben-Ami | Life Sciences |

www.ben-ami.com Frida Ben-Ami <frida@tauex.tau.ac.il>

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Toulouse StatisticalGenetics

A postdoctoral position is available in the research group of Bertrand Servin in the Animal Genetics division of INRAE in the GenPhySE lab in Toulouse (https://genphyse.toulouse.inra.fr)

The project is aimed at integrating population genomics and quantitative genetics inference to model polygenic selection and improve genomic prediction of complex traits. The mission of the postdoctoral researcher will be to construct new statistical models that combine adaptive effects procured by population genomics inference and trait association effects obtained by quantitative genetics approaches in order to quantify the polygenic response to selection and improve genomic prediction models. These questions will be addressed by computer simulations of selection in populations and the application of (i) existing population genomics methods developed by the team and its collaborators and (ii) GWAS analyses for estimating trait-marker associations. New statistical methods to combine results of the two kinds of analysis will need to be developed. The application of the new methods to real datasets is expected, in particular to ensure their computational scalability.

Expected start date in position: September 2023 but is flexible. Contract length : 18 months with possibilities for renewal.

Qualifications:

Applicants must have a PhD in the field of Statistical Genetics, Population or Quantitative Genetics, Computational Biology, Statistics or other disciplines with strong quantitative backgrounds and strong programming skills.

In any case, a keen interest in data science and statistical modeling is required as well as excellent written and oral communication skills in English. Previous experience with the simulation of genetic data and the analysis of large genetic datasets will be preferred.

More information here : https://jobs.inrae.fr/en/ot-17932 Please apply before June 1st, 2023.

Bertrand Servin INRAE Animal Genetics Division Genphyse lab, INRAE Toulouse. bertrand.servin@inrae.fr https://gestat.netlify.app/ Bertrand Servin <bertrand.servin@inrae.fr>

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TrierU eDNAPlantInsectInteractions

24-month postdoc position “Monitoring plant-insect interactions with environmental DNA”

We offer a 24-month full-time postdoc position in the lab of Henrik Krehenwinkel < https://www.uni-trier.de/universitaet/fachbereiche-faecher/fachbereich-vi/faecher/biogeographie/profile/krehenwinkel-henrik > in the Department of Biogeography at Trier University in Germany. The project will focus on the development of environmental DNA tools to reconstruct plant-arthropod interactions. A focus will lie on the detection of plant-pollinator interactions in different field and laboratory settings in Germany.

The project involves the development of qPCR and metabarcoding protocols for the detection of arthropod DNA from plant material and the application of these protocols to test different ecological questions.

Suitable candidates should hold a PhD and ideally have some experience in DNA barcoding or metabarcoding. Please send your application (letter of motivation, CV, and the names of two references) as a PDF doc-

ument in English or German to Henrik Krehenwinkel (krehenwinkel@uni-trier.de) by May 11th, 2023. Any project-related questions can also be addressed to Henrik Krehenwinkel.

Prof. Dr. Henrik Krehenwinkel Biogeography Trier University phone: +49-(0)651-2014911 < http://biogeographie.uni-trier.de > https://www.uni-trier.de/index.php?id=67447 Henrik Krehenwinkel <krehenwinkel@uni-trier.de>

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UAberdeen UK Eco-EvoModelling

Title: Research Fellow - Unravelling the role of genetic variation of beneficial arthropods in agroecosystems.

Duration: 3.5 years.

An enthusiastic, motivated, and creative postdoctoral Research Fellow is sought to join a collaborative team within the School of Biological Sciences to develop predictive process-based models on the effects of climate and land-use change on arthropods' genetic diversity and persistence in agro-ecosystems.

The ideal candidate should have a strong background in theoretical evolution and/or ecology, strong programming skills, strong interest/knowledge of population genetics and interest in applying those skills to improve understanding and forecasting of species' responses to anthropogenic changes. The fellow will join Dr Greta Bocedi's team (https://gretabocedi.com/) and a wider strong team of PIs, postdocs and postgraduate students developing and applying the RangeShifter platform (https://rangeshifter.github.io/; led by Dr Greta Bocedi, Prof Justin Travis and Prof Damaris Zurell at the University of Potsdam, in collaboration with Dr Lesley Lancaster), who are embedded within a global collaborative network that will maximize both the impact of the work and the advancement opportunities to the postdoctoral researcher. Further, the fellow will be part of the Centre of Ecological Genetics (https://bio.au.dk/forskning/-forskningscentre/centre-for-ecological-genetics/), an international collaboration between PIs from universities in Aarhus (DK), Helsinki (FI) and Aberdeen (UK), with Aberdeen leading the modelling component. The centre's research spans several topics in ecological and evolutionary research using molecular methods and statistical and process-based modelling.

Further information and application: https:/-/www.abdnjobs.co.uk/vacancy/research-fellow-522199.html Informal enquiries are welcome to Greta Bocedi, greta.bocedi@abdn.ac.uk Closing date: 04/05/2023.

Dr Greta Bocedi Royal Society University Research Fellow School of Biological Science, University of Aberdeen Zoology Building, Tillydrone Avenue, AB24 2TZ Tel: +44 (0)1224 272392 greta.bocedi@abdn.ac.uk www.gretabocedi.com Novo Nordisk Challenge Centre for Ecological Genetics www.ecogenetics.au.dk The University of Aberdeen is a charity registered in Scotland, No SC013683.

Tha Oilthigh Obar Dheathain na charthannas cl?raichte ann an Alba, ?ir. SC013683.

"Bocedi, Greta" <greta.bocedi@abdn.ac.uk>

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UArkansas EvolutionPollinatorBehavior

Postdoctoral Fellow in Pollinator Behavior Evo-Devo at The University of Arkansas

The Westerman Lab at the University of Arkansas is seeking a Postdoctoral Fellow to investigate the evo-devo of butterfly vision and plant-pollinator interactions, to begin as soon as Summer 2023. The Westerman Lab studies mechanisms underlying behavioral diversity and plasticity, with a focus on sensory system development and visual decision making in butterflies. We also examine plant-insect interactions. Current research topics include the role of genetics and social environment in mate preference development and evolution, behavioral and developmental plasticity, and sensory biases. The lab is an integrative animal behavior group, and integrates a wide range of techniques, including, but not limited to, genomics, transcriptomics, gene editing, controlled laboratory experiments, cell culture, and field ecology. Research incorporates both tropical butterflies and those native to Northwestern Arkansas, and takes advantage of multiple species-rich field sites within a 30-minute drive of campus. For more information, please visit the lab website at http://www.ericawesterman.org . The successful candidate will be expected to work in close collaboration with Dr. Westerman and current lab members, and will have the opportunity to develop

an independent research project within the scope of the lab. In addition, the successful candidate will have the opportunity to mentor undergraduate and graduate students. Dr. Westerman has collaborations within the Biology Department, as well as with faculty in both the Entomology and Plant Pathology Department and the Physics Department at UARK, and is part of a university-wide UA Integrative Systems Neuroscience group (https://brainresearch.uark.edu/). Postdocs in the lab have the opportunity to work across discipline, and are encouraged to initiate and develop innovative collaborative projects.

This technically integrative lab embraces creative approaches to studying animal behavior. Candidates with a background in genomics, gene editing, molecular ecology, neuroethology, or evolutionary development, in addition to animal behavior and behavioral ecology, are encouraged to apply.

Funding is currently available to support this position for up to four years, with the possibility for extension depending on funding and project progress.

Minimum Qualifications:

Ph.D. in biological sciences or a related field conferred by the start of employment Demonstrated expertise in animal behavior or behavioral ecology or genomics or bioinformatics or gene editing or neuroethology or evolutionary developmental biology techniques Experience with either multivariate statistics or statistical analysis of genomic data Demonstrated evidence of excellent writing skills

Preferred Qualifications (any one of these would be preferred, all can be learned in the Westerman Lab):

Experience using CRISPR/Cas9 Experience in animal behavior experimental design Experience in live animal husbandry Experience in field ecology Experience in cell culture

For a complete position announcement and information regarding how to apply, visit:

https://uasys.wd5.myworkdayjobs.com/-en-US/UASYS/job/Postdoctoral-Fellow-in-Biological-Sciences_R0034479-1?locations=-17a66cdad98201f7890cfb48ca00e249 Applicants must submit a cover letter/letter of application, curriculum vitae, and a two-page description of research accomplishments and future plans uploaded to the 'Other Document' link. Please also include a list of three professional references (name, title, email address, and contact number) willing to provide letters of reference.

Applications received by May 15th, 2023 will be given priority, though the position will remain open until filled.

For more information, please contact:

Dr. Erica Westerman

Associate Professor

Department of Biological Sciences

University of Arkansas

ewesterm@uark.edu

The University of Arkansas is an equal opportunity, affirmative action institution.The university welcomes applications without regard to age, race/color, gender including pregnancy),national origin, disability, religion, marital or parental status, protected veteran status, military service,genetic information, sexual orientation or gender identity. Persons must have proof of legal authority to work in the United States on the first day of employment. All applicant information is subject to public disclosure under the Arkansas Freedom of Information Act.

Erica L. Westerman, PhD (she/her/hers)

Associate Professor Department of Biological Sciences University of Arkansas Science & Engineering, Room 416 Fayetteville, AR 72701 ewesterm@uark.edu

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.-mcmaster.ca/~brian/evoldir.html

UBuffalo PlantPhylogenomics

Postdoctoral Associate, Plant Phylogenomics

An exciting opportunity for a Postdoctoral Research Fellowship is available in the research group of Dr. Charlotte Lindqvist in the Department of Biological Sciences, University at Buffalo. We are seeking applications for a Postdoctoral Associate to join a collaborative NSF-funded plant phylogenomic project. The project will utilize next-generation sequencing approaches involving targeted enrichment, whole genome sequencing, and broad taxonomic sampling, including both herbarium/living collections and field collections, to build a robust phylogenetic platform of lamioid mints (Lamioideae, Lamiaceae) and explore patterns of diversification and links to shifts in distribution, ecology, and genome dynamics.

The Postdoctoral Associate will be based at the University at Buffalo but will collaborate closely with grant partners at the Missouri Western State University and an important aspect will be mentoring of undergraduate research at both institutions.

Responsibilities include: DNA extraction, short and long read genome sequencing, HybSeq development and data analysis and interpretation, genome assembly and bioinformatic analyses, training of undergraduate students and outreach activities. The position also offers opportunities to be involved with numerous cutting edge plant evolutionary genomic projects and collaborations.

Minimum qualifications: - PhD in evolutionary biology, or related field - Excellent English writing and verbal communication skills

Preferred qualifications: - Background in plant systematics and/or phylogenetics - Record of productivity (peer-reviewed publications) in areas relevant to the research - Proficiency in genome-scale data analysis, computer programming, and/or bioinformatics - Interest in working with and mentoring of undergraduate students

Find more information and to apply, see here: https://-www.ubjobs.buffalo.edu/postings/41333 Review of applications has begun, applications will be accepted until the position is filled.

Outstanding Benefits Package Working at UB comes with benefits that exceed salary alone. There are personal rewards including comprehensive health and retirement plan options. We also focus on creating and sustaining a healthy mix of work, personal and academic pursuit - all in an effort to support your work-life effectiveness. Visit our benefits website to learn about our benefit packages.

About The University at Buffalo The University at Buffalo (UB) #ubuffalo is one of America's leading public research universities and a flagship of the State University of New York system, recognized for our excellence and our impact. UB is a premier, research-intensive public university dedicated to academic excellence. Our research, creative activity and people positively impact the world. Like the city we call home, UB is distinguished by a culture of resilient optimism, resourceful thinking and pragmatic dreaming that enables us to reach others every day. Visit our website to learn more about the University at Buffalo.

As an Equal Opportunity / Affirmative Action employer, the Research Foundation will not discriminate in its employment practices due to an applicant's race, color, religion, sex, sexual orientation, gender identity,

Contact: Charlotte Lindqvist, cl243@buffalo.edu

Charlotte Lindqvist <cl243@buffalo.edu>

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UConnecticut FishEvolutionaryToxicology

Applications are invited for a postdoctoral position studying evolutionary toxicology of coastal fish, at the University of Connecticut. The advertisement is attached.

Postdoctoral Researcher

Department of Natural Resources and the Environment, University of Connecticut

Position description: The Brandt Lab at the University of Connecticut seeks expressions of interest for a postdoctoral research position focused on per- and polyfluoroalkyl substances (PFAS) in the Long Island Sound. The research will evaluate temperature-PFAS interactions and influence on estuarine fish fitness, with a combination of fieldwork and lab-based experiments. The successful candidate will work collaboratively with Dr. Jess Brandt (UConn), Dr. Maria Rodgers (NCSU), and Drs. Daniel Bolnick, Kathryn Milligan-McClellan, and Milton Levin (UConn). This position will be a renewable 12-month appointment; the start date is flexible, but ideally by July 2023. Salary and effort will be commensurate with experience based on the NIH postdoc salary schedule. For more information on benefits, visit: https://hr.uconn.edu/employee-benefits-overview/. Learn more about the University of Connecticut at http://www.uconn.edu/ and the Department of Natural Resources and the Environment at: nre.uconn.edu.

Project description: The primary funding for this position is a grant from the Long Island Sound Study (funded through NY and CT Sea Grant) to 1. Characterize contemporary PFAS concentrations and temperature exposure scenarios for coastal fish populations downstream of publicly owned treatment works (POTW) near the Long Island Sound (LIS), and 2. Quantify organismal metabolic bioenergetics to environmentally relevant PFAS levels across temperature conditions predicted for the LIS 20 and 50 years into the future. The project will involve travel to various sampling sites proximate to the Connecticut portion of the Long Island Sound. A high-level of collaboration with community and state,

stakeholders is expected. Opportunities to develop complementary research questions and proposals with the project team will be encouraged.

Qualifications: Well-qualified candidates will:

- hold a PhD in environmental or eco- toxicology, environmental biology, ecosystem science, or a related field;

- have expertise in fish biology and/or eco-toxicology;

- be familiar with measures of organismal metabolic bioenergetics;

- demonstrate strong stakeholder engagement skills; and

- have experience working in interdisciplinary research teams.

Candidates who are familiar with PFAS and/or organismal toxicological research and who have experience leading lab-based exposure experiments will be preferred.

Interested candidates should email Drs. Jess Brandt (jess.brandt@uconn.edu) and Maria Rodgers (mlrodge2@ncsu.edu) with a 1-2 page statement of their research experience and interests as they relate to the project description above, their CV, and contact information (name, affiliation, and email address) for three professional references.

Application review will continue until the position has been filled.

College of Agriculture, Health and Natural Resources

Natural Resources and the Environment

1376 STORRS ROAD, UNIT 4087

W.B. YOUNG

Storrs, CT 06269-4087

PHONE 860.486.2840

FAX 860.486.5408

www.nre.uconn.edu Dr. Daniel I. Bolnick Professor, Ecology and Evolutionary Biology & Institute for Systems Genomics

daniel.bolnick@uconn.edu

MAIL TO: Department of Ecology and Evolutionary Biology 75 N. Eagleville Road, Unit 3043 University of Connecticut Storrs, CT 06269-3043, USA

Office Phone: 860-486-3156 Lab Phone: 860-486-3937 Cell Phone: 512-809-6217

Office:PBB 305C Lab: PBB 317&319; ATW 232, 234, 236 Lab website: https://bolnicklab.wordpress.com "Bolnick, Daniel" <daniel.bolnick@uconn.edu>

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UFlorida InsectSexualSelection

Applications are welcome for a Postdoctoral Associate to work on sexual selection at the University of Florida in Gainesville.

Position description: The Miller Lab at the University of Florida welcomes applications for a postdoctoral researcher to focus on the elaborate morphologies and behaviors of sexual selection in insects. The successful applicant will assume a supervisory role within a research team, working closely with students and interns to complete projects sponsored by a recent $1.2M National Science Foundation award. This work will be interdisciplinary and will involve collaborations with researchers at Imperial College, London, and the University of Cambridge. Opportunities to develop complementary research questions and proposals with the project team will be encouraged.

Project description: Sexual selection has resulted in some of the most astonishing traits in the animal kingdom, such as the tusks, horns, and antlers used by males as they compete with rivals for mating opportunities. These and other sexually selected weapons have evolved to function physically in battle. In this project, we examine weapon composition, structure, and use in a fighting insect, the leaf-footed cactus bug, Narnia femorata (Hemiptera: Coreidae). Importantly, we embrace the ecology of the organism, testing the profound effects that natural variation in nutrition can have on both the processes and outcomes of sexual selection.

Qualifications: Well-qualified candidates will:

* Hold a PhD in behavioral ecology or evolutionary biology; * Have demonstrated skills in data collection, statistical analysis and writing; * Have excelled at animal care; * Show strong leadership qualities and excellent communication skills; * Enjoy taking a team approach to scientific study; * Have experience with outreach and mentoring students.

Desirable qualities include: - Experience working with insects; - Possession of a drivers license; - Comfort conducting field work in hot, humid Florida conditions on occasion.

Interested applicants can learn more about this position (Postdoctoral Associate #1), including how to apply, at: http://www.millerlab.net/opportunities.html Diversity

and inclusion are more than just words for us. These are central in guiding how we come together as a research team, cultivate excellence, and go forth into the world to share our discoveries and our love of our work.

Information about Gainesville, Florida:

Situated in the rolling countryside of north central Florida, Gainesville, is close to world-class fishing, snorkeling, canoeing, tubing and kayaking. On land, those so inclined may enjoy birding, hiking, biking, and fishing. Home of the University of Florida, seat of Alachua County's government and the region's commercial hub, Gainesville is progressive, environmentally conscious and culturally diverse. The presence of many students and faculty from abroad among its 99,000-plus population adds a strong cross-cultural flavor to its historic small-town Southern roots. Its natural environment, temperate climate and civic amenities make Gainesville a beautiful, pleasant, and interesting place in which to learn and to live.

Christine W. Miller (she/her) Associate Professor

Email: cwmiller@ufl.edu

Entomology & Nematology Department University of Florida www.millerlab.net

2022-2023 On Sabbatical at the University of Cambridge, UK

"Miller, Christine W." <cwmiller@ufl.edu>

UGeorgia EvolutionaryGenomics

Postdoc positions in the Sweigart lab at the University of Georgia

Our lab uses genetics and genomics to understand mechanisms of phenotypic evolution and species divergence. We work with species in the genus Mimulus (monkeyflowers), a system with tremendous wild diversity and ever-growing genomic resources including many new chromosome-scale reference assemblies.

The postdoctoral researcher(s) will lead projects aimed at understanding how the evolution of self-fertilization impacts genomic variation and epigenomic regulation in Mimulus, and will benefit from an ongoing collaboration with Dr. Becky Mosher's lab at the University of Arizona. Using multiple Mimulus species pairs with independent derivations of selfing, we are seeking new lab members to explore two main questions:

1) How does the transition to selfing impact host defense against transposons and collateral silencing of nearby genes? Genomic conflicts, including those involving transposons, are expected to be dampened in selfing species. Taking advantage of our new, nearly gapless genome assemblies, this project will investigate how mating system affects the dynamics of transposon evolution and host defense, with a particular focus on changes to RNA-directed DNA methylation.

2) Does the evolution of selfing lead to predictable genetic changes in seed development associated with a reduction in kin conflict? We have discovered kin conflict contributes to seed evolution and strong reproductive barriers in Mimulus, but the role of mating system is unclear. This project will explore whether mating system contributes to these patterns and, if so, whether they involve changes to genomic imprinting.

The postdoctoral researcher(s) will have considerable latitude in determining the direction of their own research and will be encouraged to use these projects as a jumping off point for future independent work. The position is ideal for someone with training or interest in evolutionary genetics, functional genomics, and/or computational biology.

Successful candidates must have a PhD in the life sciences and demonstrate a solid record of research productivity. The ideal candidate will also be enthusiastic, motivated, collaborative, and proficient in bioinformatics and functional genomics. The position is available for up to three years, with a competitive salary and full benefits. The target start date is summer 2023, but this can be flexible for the right candidate.

The Sweigart lab values equity and diversity, and we prioritize a welcoming and inclusive lab environment. We strive for a lab culture that is stimulating, collaborative, supportive, and fun. The lab is located at the University of Georgia, which has an exceptionally strong group of plant geneticists and evolutionary biologists. Greenhouse, laboratory, and computational facilities are also excellent. UGA is located in Athens, a vibrant college town with a reasonable cost-of-living, wonderful community spirit, and lively arts/music scene. There is also easy access to culturally-rich Atlanta and to diverse outdoor recreational opportunities (e.g. Great Smoky Mountains NP, Savannah/GA Coast, Okefenokee Swamp).

To apply, please email Andrea Sweigart (sweigart@uga.edu) a CV, a brief ($<$ 1 page) statement of research accomplishments and future goals,

and contact information for two academic references. Informal inquiries are also very welcome.

For more information about research in our lab, go to: http://www.genetics.uga.edu/sweigartlab . Andrea L. Sweigart Professor Department of Genetics 120 East Green Street Davison Life Sciences Building, C218 University of Georgia Athens, GA 30602-7223

office phone: (706)-542-7001 sweigart@uga.edu http://sweigartlab.genetics.uga.edu Andrea Sweigart <sweigart@uga.edu>

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UHawaii Hilo BioinformaticsGenomics

The HawaiÊ≫i Cooperative Studies Unit (HCSU) is recruiting an HCSU Postdoctoral Research Analyst with experience in genomics/bioinformatics and landscape ecology to contribute to a collaborative research project with the USGS Pacific Island Ecosystems Research Center (PIERC), the University of HawaiÊ≫i at Hilo, and other stakeholders. This 18-month postdoc will contribute to a study of mosquito population dynamics, evolutionary biology, and ecology in preparation for landscape-scale mosquito control using Wolbachia Incompatible Insect Technique (IIT) to be implemented as part of avian conservation efforts in Hawai'i.

Tasks include: - Developing novel approaches to characterize mosquito population demographics and identify biotic and abiotic factors that contribute to population connectivity using next generation sequencing datasets, climate datasets, and landscape features. - Assisting with planning for other types of disease reduction techniques that might be enacted in the future, including synthetic biology approaches for vector or disease control.

Please see below job posting summary for more details, including Duties, Primary Qualifications, and Application Requirements. Note: telework may be permissible.

Interested applicants may apply online at www.rcuh.com and click on "Job Postings," ID #223277. The deadline to apply is May 5, 2023 or until filled.

We are looking for a diverse and highly qualified applicant pool and appreciate your kÅkua in helping us share this opportunity with your networks. If you have questions, please call Lori Bufil at 808-932-7977.

Job Posting:

HCSU Postdoctoral Research Analyst (Bioinformatics/Genomics) RCUH HR (04/19/23) Bulletin Board Posting: 04/21/23 RCUH Website: 04/21/23 Hire Net Hawaiâ: 04/21/23 HCSU POSTDOCTORAL RESEARCH ANALYST (BIOINFORMATICS/GENOMICS)- ID# 223277.

CLOSING DATE: May 5, 2023, or until filled. Applications received after this deadline may be considered only if the position is not filled or up to the date a selection has been approved by the RCUH (whichever comes first). INQUIRIES: Lori Bufil 808-932-7977 (Hawaiâ).

Regular, Full-Time, RCUH Non-Civil Service position with the Hawai'i Cooperative Studies Unit (HCSU) at the University of Hawai'i at Hilo (UHH) in collaboration with the United States Geological Survey Pacific Island Ecosystems Research Center (USGS PIERC). Work location is in the USGS PIERC office in HawaiâVolcanoes National Park on the island of Hawaiâ. Telework (from employee's residence city and state) may be permissible subject to review and approval by Principal Investigator and RCUH. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, availability of funds, and compliance with applicable Federal/State laws.

MONTHLY SALARY: Salary commensurate with qualifications.

DUTIES: Analyzes mosquito next-generation sequencing data, capture data, and associated spatial, environmental, and climate data using bioinformatics and statistical software to help inform critically important mosquito monitoring efforts associated with novel vector control efforts in Hawaiâ. Combines landscape genomics and ecological modelling techniques to identify biotic and abiotic factors that influence connectivity of mosquito populations. Coordinates with state, federal, and international agencies and researchers to collect additional Culex specimens and processes them through the full data cycle (e.g., dissection, DNA extraction, next-generation sequencing library preparation, analysis). Collects information foundational for the strategic planning of synthetic biology tools to control vector-borne disease. Carefully documents analysis and performs data management and database archiving. Works with a panel of expert biologists and modelers familiar with the data, and relevant past and ongoing research and management efforts. Reviews relevant literature and works with the research team leads and collaborators. Authors or co-authors scientific manuscripts related to the Mosquito Genomics project, and more

broadly, mosquito ecology, mosquito control, and related topics. Assists with preparing all research products for the United States Geological Survey (USGS) policy and quality reviews, such as Fundamental Science Practices (FSP). Edits and formats scientific manuscripts. Produces project summaries for internal or general distribution at scientific meetings, workshops, and presentations, including outreach products for different audiences. Works with research team leads, project collaborators, scientists, modelers, and resource managers to ensure sound interpretations of results.

PRIMARY QUALIFICATIONS:

EDUCATION PhD from an accredited college or university in Bioinformatics/Genomics, Ecology, Biology, Zoology, Fisheries/Wildlife, or other related fields that provide crosstraining in genomics.

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UKonstanz EvolutionaryBiol

At the University of Konstanz in Germany we have openings for

Postdocs in evolutionary biology (two year fellowships)

(earliest possible starting date: June 2023)

The person(s) we are looking for should be an evolutionary biologist.Currently we work mostly on questions in molecular evolution, comparative genomics, and the genomics of speciation and adaptation. The position is intended for an - ideally - international female Ph.D. biologist with a strong publication record in evolutionary biology. A total of up to three postdoc fellowships, funded by the Alexander von Humboldt Foundation, might become available in the Department of Zoology and Evolution Biology at the University of Konstanz: https://www.evolutionsbiologie-uni-konstanz.com/ Our taxonomic emphasis is on fish, particularly on cichlid fish, but also other fish model systems are used in our research on comparative and speciation genomics, comparative developmental biology, and evo-devo. We are especially interested in the origins of (convergently evolved) adaptations, speciation, and phylogenomics of cichlid fish adaptive radiations from Nicaragua and Africa. We are open to consider anyone investigating other interesting taxa and questions.

For publications of the lab see:

https://www.evolutionsbiologie-uni-konstanz.com/-publications.html Space in a modern fish facility is available. Wet lab space, equipment, departmental facilities, including core-facilities in proteomics and genomics, and annual financial support for research expenses and student support, are provided by the University of Konstanz. The lab has sufficient space and state-of-the-art equipment for research in zoology, ichthyology, genomics, molecular, and developmental biology.

The University of Konstanz and the Department of Biology are among the most highly ranked institutions in Germany and provide a lively and academically outstanding research environment. Konstanz is a lovely historic town located on Lake Constance on the southern border between Germany and Switzerland. The postdoctoral fellowship is provided through a program from the Alexander von Humboldt Foundation.

The University of Konstanz is an equal opportunity employer and tries to increase the number of women in research and teaching. The University of Konstanz is committed to further the compatibility of work and family life and has onsite child care facilities https://-www.uni-konstanz.de/en/equalopportunities/family/-childcare/kinderhaus-knirps-co-childcare-centre/ Additional information contact: a.meyer@uni-konstanz.de, phone: +49 7531 884163.

For our current research see: https:/-/scholar.google.com/citations?user=-qf6eWtgAAAAJ&hl=en&oi=ao Applications-including a statement of research interests, research plans, a full CV and names and email addresses of 2-3 referees - should be emailed to: a.meyer@uni-konstanz.de.

Applications will be reviewed as soon as they are received but should be submittedby May 26th, 2023.

Prof. Axel Meyer, PhD Lehrstuhl für Zoologie und Evolutionsbiologie Department of Biology Building M, Room M806 University of Konstanz 78457 Konstanz Germany

fon + 49 (0)7531 88 4163 fax + 49 (0)7531 88 3018

secretary: Office.Meyer@uni-konstanz.de tel. + 49 (0)7531 88 3069

http://www.evolutionsbiologie-uni-konstanz.com/ Axel Meyer <axel.meyer@uni-konstanz.de>

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ing@mcmaster.ca)

UKonstanz EvolutionaryTheory

Postdoc: University of Konstanz evolutionary theory, mathematical modeling, theoretical biologyWe are seeking a highly motivated and enthusiastic Postdoc to work on the evolution of endosymbiosis. Join us on a project to study the evolutionary process and ecological conditions favoring the evolution of endosymbiosis. We are looking for a highly motivated postdoctoral researcher who will work with us to gain new insights into the biologically relevant conditions, evolutionary pathways and mechanisms that lead to the evolution of obligate endosymbiotic interactions. The project aims to develop theoretical insights based on observations from experimental work in Lutz Becks' group and to contribute to the design of future experiments.

This project is a collaboration between Lutz Becks (University of Konstanz; https://www.limnologie.uni-konstanz.de/becks), Peter Czuppon (University of M?nster, https://czuppon.net/) and Chaitanya Gokhale (University of W?rzburg, https://tecoevo.github.io/) and aims to develop theory based on experimental work. Highly motivated candidates with a PhD in evolutionary theory, mathematical modeling or theoretical biology are encouraged to apply. Previous work in the context of evolutionary transitions, the evolution of symbioses or species interactions is an advantage. Candidates should demonstrate an enthusiasm for basic research and an interest in mechanistic and phenomenological modeling. The successful candidate should be able to communicate effectively with people from a wide range of disciplines.

Funding is available for 18 months with the possibility for extension.

Location: The main place of work will be at the University of Konstanz, but the postdoc is expected to travel to W?rzburg/M?nster for research visits. The collaborative research environment in the group is highly integrative, very international and conducted in English. Konstanz is a very beautiful and pleasant place to live as it borders the third largest lake in Central Europe and lies at the foothills of the Alps. The University of Konstanz is an equal opportunities employer.

Interested candidates should send a CV, a short cover letter highlighting interests and potential research questions, and contact details of two professional referees to lutz.becks@uni-konstanz.de. Review of applications will begin immediately and will continue until the position is filled.

Prof. Dr. Lutz Becks University of Konstanz Aquatic Ecology and Evolution Limnological Institute Mainaustra?e 252 78464 Konstanz / Egg Germany Phone: 07531 88 2828 E-Mail: lutz.becks@uni-konstanz.de https://www.limnologie.uni-konstanz.de/en/ag-becks/ Lutz Becks <lutz.becks@uni-konstanz.de>

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UMemphis EvolutionaryGenomics

Post-doctoral Fellow in Evolutionary Genomics and Bioinformatics

The Mandel Lab in the Department of Biological Sciences at the University of Memphis is recruiting a Postdoctoral Fellow in evolutionary genomics and bioinformatics. Researchers with relevant analytical skills will be considered, regardless of the organism(s) previously studied. Exceptional skills in genomics and bioinformatics, a strong interest in organismal biology and evolution, and excellent communication skills, are critical for success in this position. The successful applicant will be primarily responsible for data generation and analysis associated with a variety of comparative genomic, phylogenomic, and evolutionary studies of plants. They will contribute to the publication of findings, and participate in the preparation of written documents, including procedures, presentations, and proposals. The successful applicant will also contribute to the training and mentoring of undergraduate students and graduate trainees. The position offers opportunities to build and establish new collaborations while working with leading edge research tools and technologies. We seek candidates who are self-motivated and who work well with others. This is a 12 -month appointment with the potential of extension contingent upon continued funding and satisfactory performance. Screening of applicants will begin May 1, 2023 but the position is open until filled.

The position offers a competitive salary plus benefits. Applications must be submitted online at https://workforum.memphis.edu/ and include a cover letter, CV, two representative publications showcasing your writing or analytical skills, and contact information (not letters) for at least three professional references. Appli-

cants can learn more about the Department of Biological Sciences at the University of Memphis and the Mandel lab at https://www.memphis.edu/biology/ and http://-mandel-lab.org. The Mandel lab and the Department of Biological Sciences promote a commitment to diversity, equity, and inclusion as part of their core values and strive to maintain a forum where all voices are heard. Thus, we seek to recruit and retain the most qualified people from a diverse pool of applicants for this position. Finally, the department is committed to supporting the work-life balance of its faculty, staff, and students.

The University of Memphis is an Equal Opportunity/Affirmative Action employer. Appointment will be based on qualifications as they relate to position requirements without regard to race, color, national origin, religion, sex, age, disability or veteran status.

"Jennifer R Mandel (jmandel)" <jmandel@memphis.edu>

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UPennsylvania EvolutionVectorbornePathogens

Postdoctoral Researcher University of Pennsylvania, Department of Biology

The Evolution and Ecology of Disease Systems laboratory (https://web.sas.upenn.edu/brisson-lab/) at the University of Pennsylvania is recruiting postdoctoral research scientists. Our current research aims are to identify the factors and processes that govern the population dynamics of pathogens and their vectors. The postdoctoral researchers can participate in any of several ongoing projects including the development and application of advanced molecular tools, generating and analyzing next-gen sequence data, field-based experimentation and field collections, applying advanced statistical analyses to existing datasets, and designing and running experimental evolution or experimental ecology projects. Postdoctoral researchers are also encouraged to develop independent projects that could form a foundation of their future independent laboratories. The ideal candidates are enthusiastic about evolutionary and ecologically based questions.

The Evolution and Ecology of Disease Systems laboratory is housed in UPenn's Department of Biology (www.bio.upenn.edu), a diverse and interactive community with a long-standing tradition of maintaining an integrated research and educational program across biological sciences (Ecology and Evolution, Plant Sciences, Molecular and Cellular Biology, Genomics, and Neuroscience). The Department values interdisciplinary research, collaboration, and collegiality, and emphasizes Life in its Natural Context. The University of Pennsylvania, including CHOP and the Medical and Veterinary schools, has a strong group of evolutionary biologists that regularly interact with each other and with an accomplished group of microbiologists and geneticists. The University of Pennsylvania is an equal opportunity employer. Minorities, women, individuals with disabilities, and protected veterans are encouraged to apply.

The positions are available as early as summer 2023. Salary is commensurate with experience based on the NIH guidelines.

To apply, please send a single pdf that includes (1) a cover letter outlining your previous experiences that make you suited for these positions as well as your research, training, and career goals, (2) a CV, and (3) contact information for 3 references to dbrisson [at] sas.upenn.edu, Subject: "Postdoc opportunity."

Please send all enquiries to dbrisson [at] sas.upenn.edu

Dustin Brisson, Professor of Biology Director, Evolution and Ecology of Disease Systems Laboratory Department of Biology University of Pennsylvania Philadelphia PA 19104-6018 http://www.bio.upenn.edu/faculty/-brisson/ https://web.sas.upenn.edu/brisson-lab/ "Brisson, Dustin" dbrisson [at] sas.upenn.edu

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UPittsburgh SpeciesInteractions

The Department of Biological Sciences at the University of Pittsburgh invites applications for a postdoctoral associate in the evolution of plant polyploidy and species interactions, to begin July 2023 (negotiable). Applicants must have a background in plant genetics, ecology, or evolution with a PhD in ecology, biology or applicable field.

The successful candidate will work with members of the Dr. Tia-Lynn Ashman and Dr. Martin Turcotte laboratories to assess the consequences of plant polyploidy on biotic interactions in a model plant system. Research responsibilities include leading experiments, analyses,

and manuscript preparation focusing on fitness effects, population growth, species interactions of polyploidy. Following on work in our labs such as:

Polyploidy impacts population growth and competition with diploids: multigenerational experiments reveal key life-history trade-offs (Anneberg et al 2023; https://nph.onlinelibrary.wiley.com/doi/full/-10.1111/nph.18794) Polyploid plants obtain greater fitness benefits from a nutrient acquisition mutualism (Forrester et al 2020; https://nph.onlinelibrary.wiley.com/-doi/full/10.1111/nph.16574)

Teaching responsibilities are leading a graduate seminar or workshop in the candidate's area of expertise each year. The postdoc will also be encouraged to participate in outreach and science communication activities.

Minimum requirements include PhD in ecology, plant biology or related field, ability to carry out experiments and conduct statistical analyses in R, evidence of scholarly work such as research presentations and publications, evidence of teaching experience, and commitment to enhancing diversity and equity in STEM; work both independently and effectively with others in a team environment, proven ability to achieve goals and manage multiple tasks. Preferred qualifications include background in community ecology, population biology or microbial or plant biology, demonstrated application of novel conceptual, experimental or statistical approaches, documented record of conducting high-quality scientific research, demonstrated by publication in peer-reviewed journals, experience propagating, manipulating, characterizing microbe and/or insect populations, and/or willingness to expand expertise, demonstrated efficient and strong writing skills, excellence in teaching and strong track record of commitment to diversity and equity in STEM.

Compensation is 60k per year with full benefits.

The Department of Biological Sciences is a highly interactive community situated on the Oakland campus of the University of Pittsburgh. We are dedicated to the mutual success of our faculty and students in our research, education, and outreach missions. The department and university nurture a strong teaching community with active efforts in teaching innovation and pedagogical research. Pittsburgh is a city that is often voted "most livable" in the nation. We are dedicated to fostering an inclusive and welcoming environment that values and nurtures diverse perspectives (https://www.provost.pitt.edu/university-pittsburgh-embracing-diversity-and-inclusion). Further information about the Department of Biological Sciences is available at: http://www.biology.pitt.edu . To apply, candidates should submit PDF documents of the following to Talent Center (http://join.pitt.edu): (a) a letter of application, (b) a current CV, (c) a brief (1 page) statement of research interests (d) a brief (1 page) statement of teaching experience, philosophy and plans, and (e) a brief description (1 page) of how your research, teaching or service demonstrates a commitment to diversity and inclusion. At least two letters of reference should be sent by the recommenders to tia1@pitt.edu.

Applications will be reviewed starting April 24 and will continue until the position is filled. The Dietrich School of Arts and Sciences is committed to building and fostering a culturally diverse environment, so the ability to work effectively with a wide range of individuals and constituencies in support of a diverse community is essential. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer and values equality of opportunity, human dignity, and diversity. EOE, including disability/vets.

Dr. Tia-Lynn Ashman Distinguished Professor Department of Biological Sciences University of Pittsburgh Pittsburgh, Pa 15260

Phone: 412-624-0984

"Ashman, Tia-Lynn" <tia1@pitt.edu>

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UppsalaU EvolGenomicsBioinformatics

Postdoctoral opportunity in Evolutionary Genomics/Bioinformatics - Uppsala, Sweden

We are looking for a highly motivated post-doctoral fellow in Evolutionary Genomics/Bioinformatics for a two-year position at the Department of Medical Biochemistry and Microbiology, Uppsala University in Prof. Leif Andersson's research group (http://www.imbim.uu.se/Research/+Genomics/-Andersson_Leif/?languageId=1).

Our main research interest is the evolution of biodiversity based on population genomics of natural populations of fishes and birds. We are analysing extensive data sets including whole genome sequencing as well as SNP chip data for a number of fish species including Atlantic herring, European sprat, European eel, Atlantic horse mackerel and European cisco and use these to study ecological adaptation and signa-

tures of selection. Other major projects in the group concerns the Evolution of Darwin's finches and their beaks and The evolution of supergenes. The following publications illustrate ongoing research;Fish genomics: (eLife,PMID:33274714;PNAS,PMID:33479174;The evolution of Darwin's finches: (Current Biology, PMID:34687609;Science Advances, PMID:35857449); Evolution of a supergene in ruff:BioRxiv,https://-doi.org/10.1101/2022.04.27.489720).

Duties: Take part in bioinformatic analysis of whole genome sequence data (short read as well as long read), SNP chip data, RNAseq, DNA methylation and ATAC-seq data; population genetic analysis including analysis of population structure, nucleotide diversity and divergence, detection of signals of selection based on whole genome sequence data or SNP data from thousands of individuals; identification and characterisation of causal variants.

Qualifications: A PhD in bioinformatics or a related area earned not later than 5 years ago (time spent on parental leave can be deducted). Experience in handling large scale next-generation sequence data is an absolute requirement. Competence in computational biology population genetics and evolutionary genomics is a merit. Since the project requires interacting with other team members and other research groups, ability to interact with others is important.

Further information and applications: Prof. Leif Andersson, Department of Medical Biochemistry and Microbiology, Uppsala University, email:leif.andersson@imbim.uu.se.

Deadline: You are welcome to submit your application no later than May 15, 2023 by email:leif.andersson@imbim.uu.se.Please include CV, a letter describing your research interest and skills, and the names and contact information (address, email address, and phone number) of at least two reference persons.The position is available as soon as the applications have been evaluated.

Page Title

När du har kontakt med oss pÃ¥ Uppsala universitet med e-post sÃ¥ innebär det att vi behandlar dina personuppgifter. För att läsa mer om hur vi gör det kan du läsa här: http://www.uu.se/om-uu/-dataskydd-personuppgifter/ E-mailing Uppsala University means that we will process your personal data. For more information on how this is performed, please read here: http://www.uu.se/en/about-uu/data-protection-policy Leif Andersson <leif.andersson@imbim.uu.se>

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URochester PhenotypicPlasticity

A postdoctoral position is available in Jenn Brisson's lab in the Department of Biology at the University of Rochester. Research in our lab focuses on the mechanistic basis and evolution of phenotypic plasticity. We are looking for someone to join an NIH-funded project investigating the evolution of the molecular and developmental mechanisms underlying the control of the pea aphid wing plasticity. Optimally, the candidate will have a strong background in evolutionary biology, along with some experience with gene expression and/or knockdown studies (e.g., RNA-Seq, qRT-PCR, in situ hybridization, RNAi, Crispr/Cas9 gene editing), and/or some bioinformatics experience. The postdoc will coordinate and conduct independent research, mentor undergraduate students, and write up results for publication. Additionally, the successful applicant will have the opportunity to develop activities relevant for their individualized career goals (such as pursuing additional research directions, community engagement activities, teaching endeavors, and/or DEI activities). The Brisson lab environment is friendly and collaborative, with a focus on mentorship and doing fun, rigorous, and reproducible science.

Appointment for this position will initially be for 12 months, with renewal for up to three years total, contingent on sufficient progress. The start date is very flexible. Salary is commensurate with experience, and benefits are included.

More information about the lab can be found at brissonlab.org. The lab is part of the "E2G2" group in the Department of Biology (https://-www.sas.rochester.edu/bio/people/faculty/ecology-evolutionary-biology/index.html), with strengths in evolutionary genetics and genomics.

Applications should include a cover letter with a short description of research interests and accomplishments (<1 page), a CV, and names and email addresses of three references. Please email these materials to Jennifer.brisson@rochester.edu with "Postdoc application" in the subject line. Screening begins immediately and continues until a suitable candidate is found. Informal inquiries are encouraged and should be sent to Jenn Brisson at Jennifer.brisson@rochester.edu.

Jenn Brisson (she/her/hers) Professor Department of Biology Hutchison 310 University of Rochester jennifer.brisson@rochester.edu brissonlab.org Editor-in-

Chief, Insect Molecular Biology Graduate Student Ombuds Affiliate for Arts, Sciences & Engineering

"Brisson, Jennifer" <jbrisso3@UR.Rochester.edu>

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USaoCarlos Brazil XenarthraGenetics

Dear Gentlemen,

I would appreciate your help for announcing a Postdoc position for Xenarthra Genetics at Federal University of SaÌo Carlos, Brazil as following:

*Postdoctoral Fellowship in Xenarthra Genetics *

*Project title: *Application of new technologies for studies in Xenarthra genetics and ecology

*Beginning on: *01/06/2023

*Lead researchers: *Pedro M. Galetti Junior (UFSCar), PhD; Helen Taylor (RZSS), PhD; Arnaud Desbiez (ICAS), PhD

*Facility/Institution of project development: *Department of Genetics and Evolution/Universidade Federal de Sāo Carlos, Sāo Carlos, SP, Brazil

*Deadline for applications: *30/04/2023

*Email for applications: *pmgaletti@ufscar.br

*Overview *

The Laboratory of Molecular Biodiversity and Conservation (LabBMC), through the coordination of professors Pedro M. Galetti Jr and Patrícia D. Freitas, from the Department of Genetics and Evolution, at the Universidade Federal de Sāo Carlos, enters into collaboration with the Wild Animal Conservation Institute (ICAS), coordinated by PhD researcher Arnaud Desbiez, to offer a postdoctoral fellowship to an international or Brazilian candidate, with a doctorate, who will develop activities in the project entitled "*Application of new technologies for studies in Xenarthra genetics and ecology*". The project will involve collaboration with the Royal Zoological Society of Scotland's (RZSS) conservation department in Edinburgh, UK, via their conservation programme manager, Dr Helen Taylor, and members of their WildGenes genetics laboratory, with the following specific objectives:

. Develop laboratory and bioinformatics analyses in metabarcoding to identify the vertebrate community in know giant armadillo habitats, with an emphasis on Xenarthrans, based on mixed DNA samples from the blood of hematophagous mosquitoes and other arthropods that potentially feed on the fauna;

. Develop non-invasive molecular analyses, based on DNA extraction from giant armadillo (*Priodontes maximus*) feces, for kinship and dispersal studies;

. Develop laboratory and bioinformatics analyses in Xenarthra DNA barcoding;

. Develop laboratory and bioinformatics analyses in genomics, especially using GBS (Genotyping-By-Sequencing), in Xenarthra species, directed at studies of kinship, dispersal, population structure, and genotype-environment association using tissue samples previously collected.

The available opening is intended for either Brazilian or international candidates with the appropriate qualifications and expertise, preferably in conservation genetics. In the case of candidates with a degree in genetics, they must demonstrate experience in ecology in their CV. The same applies to candidates with a degree in ecology, providing demonstrated experience in genetics. Candidates must possess the ability to read, write, and speak English, as well as the demonstrated capacity to write and publish scientific articles and the willingness to reside in Sāo Carlos. Candidates will also need to be willing to carry out field trips in the geographical area of project operations (Pantanal, Cerrado, and Atlantic Forest). The selected candidate will be involved in the planning and execution of the research activities mentioned in this announcement and will also work in laboratory administration and on the co-supervision of undergraduate and graduate students at UFSCAR. This professional should be familiar with bibliographic search tools and know how to plan and conduct experiments independently. Among the knowledge and techniques necessary for the development of this project, we highlight the need to:

1. Present experience in the field and in the collection of biological material for the full development of field activities;

2. Extract and prepare DNA from biological samples for Sanger sequencing studies (DNA barcoding) and for large-scale sequencing (metabarcoding and GBS);

3. Have a reasonable understanding of bioinformatics and be able to analyze the DNA barcoding, metabarcoding, and genomic (GBS) data produced.

*Contract period and start of work: *The fellowship lasts for 36 months. Expected start date: 1 June 2023.

*Amounts and conditions: *

1. Monthly stipend in the amount of R$ 5,000.00 (five thousand reais), fully financed by the Wild Animal Conservation Institute (ICAS);

2. Candidates must have completed their doctorate and reside in Sa̅o Carlos, SP, Brazil, during the period of study;

3. Expenses related to field trips, transportation, accommodations, and food, when necessary, will be paid for by ICAS, with no financial burden on the research fellow;

4. The funding of the research fellowship is stipulated on the full-time dedication of the candidate to the research project;

5. For the implementation of the fellowship, the selected candidate must present all required documentation to ICAS.

*How to apply: *The submission deadline is 30 April 2023. Applications

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UTulsa Two EvolutionaryNeuroscience

Two Postdoctoral Fellow Positions in Integrative Biology and Neuroscience

The Department of Biological Science at The University of Tulsa invites applications for two Postdoctoral Fellow positions in Integrative Biology and Neuroscience. We seek creative and interactive individuals who would like to advance their research programs in these areas, while also obtaining training and experience in teaching.

Fellows will devote 60% effort to research and 40% to teaching. Research topics are flexible within the realms of Integrative Biology and Neuroscience, but should have overlap with the expertise of one of the faculty mentors for these positions (listed below).

We anticipate a Fall 2023 start date for these positions. The successful applicant is expected to have a Ph.D. in Biological Science or a related field prior to starting.

Interested applicants should submit: (1) A cover letter stating possible areas of research interest and how this Postdoctoral Fellowship will contribute to your career trajectory. (2) Curriculum Vitae. (3) Pdfs of up to two representative publications. (4) Names and complete contact information for three references.

We encourage applicants to contact one or more of the potential mentors before applying.

For the Integrative Biology Postdoctoral Fellowship:

Akhtar Ali (akhtar-ali@utulsa.edu) Plant Virology http://akhtarvirologylab.utulsa.edu Ron Bonett (ron-bonett@utulsa.edu) Amphibian Evolution and Development https://ronbonett.weebly.com Charles Brown (charles-brown@utulsa.edu) Avian Behavioral Ecology https://www.cliffswallow.org Mark Buchheim (mark-buchheim@utulsa.edu) Evolution of Algae https://buchheimlab.weebly.com Mohamed Fakhr (mohamed-fakhr@utulsa.edu) Bacterial Genomics https://engineering.utulsa.edu/biological-science/-faculty/profile/mohamed-fakhr/ Alex Kingston (alex-kingston@utulsa.edu) Invertebrate Neurobiology https://www.kingston-lab.com Katie Mika (kmmika12@gmail.com) Vertebrate Molecular Evolution https://www.katelynmika.com/research Matt Toomey (mbt6332@utulsa.edu) Mechanisms and Evolution of Coloration and Vision http://6045f9f8cf.url-de-test.ws/-research.html For the Neuroscience Postdoctoral Fellowship (also listed above):

Ron Bonett (ron-bonett@utulsa.edu) Amphibian Evolution and Development Alex Kingston (alex-kingston@utulsa.edu) Invertebrate Neurobiology Katie Mika (kmmika12@gmail.com) Vertebrate Molecular Evolution Matt Toomey (mbt6332@utulsa.edu) Mechanisms and Evolution of Coloration and Vision

Applications should be submitted electronically to: Integrative Biology Postdoctoral Fellowship (BiologyPostdoc_search@utulsa.edu) or the Neuroscience Postdoctoral Fellowship (NeuroPostdoc_search@utulsa.edu). Please indicate if you would like to be considered for both positions. For full consideration applications should be received by 12-May-2023.

The University of Tulsa is an Equal Opportunity Employer and is especially interested in candidates who can contribute to the diversity and excellence of the academic community through their research, teaching and/or service.

Ronald Bonett <ron-bonett@utulsa.edu>

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UWurzburg TheoreticalBiology

Postdoc position in Theoretical Biology

We offer a Research Scientist (Postdoc) position at the Center for Computational and Theoretical Biology, University of Würzburg, Germany for a maximum duration of four years. We are seeking an independent and communicative postdoctoral researcher to join our team in theoretical biology. The ideal candidate will be interested in interdisciplinary collaborative research, have a strong record of originality, and be able to generate their own project ideas. The position will be available for four years and include some teaching duties. In addition, we will support candidates who wish to write grants and applications for starting their own research group. This is a unique opportunity for a highly motivated researcher to develop their own research program and gain valuable experience in teaching and mentoring.

The research agenda of our group focuses on the origins and dynamics of eco-evolutionary processes and patterns across scales of organisation, from sub-cellular to societal. We are interested in understanding the fundamental properties of living systems and develop translational applications such as in agriculture, conservation, and medicine when possible. To get an idea of the interests of our group please visit our group websitehttps://tecoevo.github.io/. The successful candidate therefore gets a wide berth in exploring systems from microbial to social and will have the freedom to develop an ambitious project to develop their independent research profile.

Qualifications:

- PhD in theoretical biology, mathematics, physics, computer science, or related field - Strong background/interest in the theory of dynamical systems - stochastic and deterministic, not only modelling - Excellent communication skills and willingness to work collaboratively across disciplines - Demonstrated ability to generate original research ideas

Responsibilities:

- Develop and conduct research projects in theoretical biology - Publish research findings in peer-reviewed journals - Teach and mentor undergraduate and graduate students - Participate in departmental and university activities

We offer the membership in a strong supportive research team, modern facilities and an international research environment.

Salary and benefits are according to public service positions in Germany (TVL, full position. The position is suitable for part-time employment). Female scientists are particularly encouraged to apply. Disabled applicants will be preferentially considered in case of equivalent qualification.

Applications

Please send your application as a single pdf file per-email to chaitanya.gokhale@uni-wuerzburg.de

Application pdf should include:

- a cover letter stating the motivation for doing a postdoc, for choosing this group - a summary of research interests and project plans for the postdoc period of 4 years (no more than 3 pages) - CV - relevant certificates, preprints and - names and contact details of at least two potential referees.

Deadline

Please send in your applications no later than the 30th of June 2023.

For further information, please contact.

Prof. Dr. Chaitanya S. Gokhale, CCTB, University of Würzburg, Germany, by e-Mail (chaitanya.gokhale@uni-wuerzburg.de) or checkhttps://tecoevo.github.io/ . Prof. Dr. Chaitanya S. Gokhale Center for Computational andTheoretical Biology, Würzburg,Germany Research Group Leader - MaxPlanck Institute for EvolutionaryBiology, Plön, Germany http://tecoevo.github.io http://gokhalechaitanya.github.io Chaitanya Gokhale <gokhale@evolbio.mpg.de>

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WellcomeSangerInst Biodiversity

We are looking for a postdoc to work on spatiotemporal data analysis of 1M arthropods being sampled from across the UK as part of our BIOSCAN project. More information on how the project works and its ambitions here: https://www.sanger.ac.uk/collaboration/-bioscan/ Advertisement for the postdoc here and pasted below: https://sanger.wd3.myworkdayjobs.com/-en-US/WellcomeSangerInstitute/details/Postdoc-in-

BIOSCAN–large-scale-study-of-spatiotemporal-variation-in-insect-species-diversity_JR100803
Please get in touch if you have any questions mara@sanger.ac.uk

Thank you! Mara Lawniczak https://-www.sanger.ac.uk/group/lawniczak-group/ About the Role: We have an exciting opportunity for a Postdoctoral Fellow (PDF) to join the Lawniczak Group < https://www.sanger.ac.uk/group/lawniczak-group/ > on the UK-wide BIOSCAN project that is using DNA based approaches to study spatiotemporal change in insect diversity.

About Us: BIOSCAN is a global project initiated by the International Barcode of Life to simultaneously study species diversity, interactions, and dynamics using DNA barcoding. At the Wellcome Sanger Institute, we are leading a UK-based project that contributes to this global effort. We have partnered with agencies and researchers across the UK to collect and study one million insects over the next five years. In addition to the use of COI DNA barcodes to identify spatiotemporal change, we also retain 99% of the DNA from each specimen as well as the specimens themselves (DNA is non-destructively extracted). Thus, there is huge potential to leverage on the BIOSCAN results to create new genomics projects on particular species or species groups.

BIOSCAN is exciting because of its potential impact and because of its scale. You will be excited to make the most of the barcode data in terms of impact and identify further opportunities for the samples. You will have a strong interest in insects and in the application of DNA to conservation and monitoring. The role is primarily an analytical and computational role, though there may be some wet lab work required on occasion.

You will be responsible for: You will be responsible for data analysis of all BIOSCAN data, studying change in species abundance, diversity, and interactions (where possible) over space and time as the project progresses. Abundant opportunities to integrate other data sources into analyses exist, which you should be keen to investigate. You will also play an important role in working with others to develop digestible and informative data visualisation and reports for our project partners. There are also opportunities to make wet-lab advances to get the most from the samples including the potential to capture additional barcodes for each specimen such as the evidence of plants each insect might have interacted with and/or pollinated.

You will be expected to develop a research project that entails whole genome sequencing of a small subset of the BIOSCAN samples where interesting or important research questions can be addressed. A likely focus would be studying cryptic species diversity in different Diptera families using long read sequencing.

About You: You are creative and dedicated to making use of the samples and the resulting data to maximise the benefits of biodiversity research while carrying out interesting evolutionary genetics research. You will have a strong interest in leading DNA approaches that enable biodiversity monitoring and thus conservation. Additionally, you should have solid entomological knowledge and interest, ideally in Diptera, which comprise the majority of the sampled specimens. You will be part of a vibrant, diverse PDF community at the Sanger Institute. We provide PDFs < https://www.sanger.ac.uk/about/-careers/postdoctoral-fellow-programme/ > with a wide programme of transferable skills training and excellent career development opportunities. For more information about being a PDF with us, please visit: https:/-/youtu.be/1-vxm2nBmFA Essential skills: Technical Skills:

* PhD in entomology, molecular biology, statistics, bioinformatics, population genetics, ecological genomics, or other relevant area of molecular or quantitative analysis * The ability to analyse and interpret genomic data with strong quantitative/computational skills. * Programming and bioinformatics skills and/or experience in statistical analysis * Practical knowledge of DNA barcoding

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WilliamAndMaryU Virginia Evolution

The Department of Biology and Program in Environment and Sustainability at William & Mary, a public university of the Commonwealth of Virginia, invites applications for a two-year, non-tenure track position of Mellon Environmental Postdoctoral Fellowship to Advance Diversity in the Environmental Sciences that will begin ~August 10, 2023.

We seek an individual with expertise in any environmental science related discipline, including but not limited to ecotoxicology, ecology, evolution, toxicology, chem-

istry, biology, biomathematics, applied statistics, data science, geography, marine or aquatic science.

The successful applicant will be expected to be an effective teacher and will be required to teach two undergraduate courses in the environmental sciences, one in the Spring of year 1 and another in the Fall of year 2, the content of which can be repeated, and to organize a 1-credit guest lecture series (ENSP 250), in the Spring of year 1.

In addition to these teaching responsibilities and individual research, the postdoc will work with a team of engaged faculty mentors and student researchers to advance the field of restoration ecology and evolution through improving population models for quantifying impacts of pollution, performing metanalyses on existing literature about pollution's impact on wildlife, and develop and mentor projects assessing environmental justice issues occurring as a result of industrial pollution and the degradation of nature.

Required: A Ph,D. is required by the time appointment begins (August 10, 2023). Teaching experience at the undergraduate level relevant to the Environmental Science/Policy/Humanities. Broad research interests in both environmental science and environmental justice issues. Demonstrated experience and/or interest in biostatistical methods and population models. Familiarity with legal frameworks for restoring contaminated sites, such as Superfund, CERCLA and NRDA are helpful, especially as related to people living in marginalized communities and the wildlife that share their habitat.

If interested, contact Dan Cristol at dacris@wm.edu. Applicants must also apply online at https://jobs.wm.edu. Submit a curriculum vitae, a cover letter, a statement describing previous professional experience or future plans (or both) that demonstrate a commitment to diversity and inclusion, a statement of teaching interests, a description of previous environmental science-related research. You will be prompted to submit online the names and email addresses of three references who will be contacted by the system with instructions for how to submit a letter of reference. Applications reviewed on a rolling basis as soon as received.

"Murphy, Helen" <hamurphy@wm.edu>

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WorkshopsCourses

Barcelona GeometricsMorphometrics Jul3-7

Dear colleagues,

Transmitting Science Onsite courses are back!

Transmitting Science is organizing an ONSITE course on Introduction to Geometric Morphometrics.

Dates: July 3rd-7th, 2023.

Place: Museum of the Institut Catalï¿½ de Paleontologia M. C. (Sabadell, Barcelona, Spain).

Instructor: Dr. Chris Klingenberg (Manchester University, UK).

Program: Size and shape Landmarks & data collection Procrustes superimposition Visualising shape changes Principal component analysis Distinguishing groups Symmetry and asymmetry Morphometrics in a messy world Regression and allometry Partial least squares: covariation between Phylogeny & comparative methods Short-presentations

Software that will be used during the course: MorphoJ, TPS, ImageJ.

More information: https://-www.transmittingscience.com/courses/-geometric-morphometrics/introduction-geometric-morphometrics/ or writing to courses@transmittingscience.com

Best wishes

Sole

Soledad De Esteban-Trivigno, PhD Director Transmitting Science www.transmittingscience.com Twitter @SoleDeEsteban Orcid: https://orcid.org/0000-0002-2049-0890 Under the provisions of current regulations on the protection of personal data, Regulation (EU) 2016/679 of 27 April 2016 (GDPR), we inform you that personal data and email address, collected from the data subject will be used by TRANSMITTING SCIENCE SL to manage communications through email and properly manage the professional relationship with you. The data are obtained based on a contractual relationship or the legitimate interest of the Responsible, likewise the data will be kept as long as there is a mutual interest for it. The data will not be communicated to third parties, except for legal obligations. We inform you that you can request detailed information on the processing as well as exercise your rights of access, rectification, portability and deletion of your data and those of limitation and opposition to its treatment by contacting Calle Gardenia, 2 Urb. Can Claramunt de Piera CP: 08784 (Barcelona) or sending an email to info@transmittingscience.com or http://transmittingscience.com/additional-terms. If you consider that the processing does not comply with current legislation, you can complain with the supervisory authority at www. aepd.es . Confidentiality. - The content of this communication, as well as that of all the attached documentation, is confidential and is addressed to the addressee. If you are not the recipient, we request that you indicate this to us and do not communicate its contents to third parties, proceeding to its destruction.

Soledad De Esteban-Trivigno <soledad.esteban@transmittingscience.com>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

Bordeaux PhilInBioMed Jun12-16 CallForApplications

Dear friends and colleagues,

The PhilinBioMed network < https://-www.philinbiomed.org/ >, the University of Bordeaux, the CNRS and Bordeaux Summer Schools, are pleased to announce the launch of the 2023 edition of the *Philosophy in Biology and Medicine Summer School* (https://bss-philinbiomed.u-bordeaux.fr/en/).

Taking place in the historic city center of Bordeaux, France, from *June 12th to June 16th, 2023*, it welcomes Master students, PhD students, and postdocs, from the fields of philosophy, life sciences, and medicine. Participants will learn to use interdisciplinary methods to address conceptual issues in scientific research.

The Summer School starts with a lecture by *Elliott Sober *(University of Wisconsin), laureate of the 2023 PhilInBioMed Award. Discussants are *Kevin Lala (formerly Laland), Ford Doolittle, *and *Silvia De Monte*.

Course leaders will be present throughout the week providing examples of interdisciplinary research based on their own experience, as well as interacting and advising participants on their projects. Course leaders include* Silvia De Monte *(Evolutionary Biology, ENS Paris),* Andy Ewald* (Medicine, Johns Hopkins), *Lucie Laplane *(Philosophy, IHPST Paris & Gustave Roussy), and *Lauren Ross *(Philosophy, UC Irvine), along with local organizers.

The deadline for registration has been extended to *April 11th, 2023.* The fees are euro 500 for Master students and PhD students, and euro 700 for postdocs. (The fees include lunch, coffee breaks and accommodation).

A limited number of supporting grants will be available upon demand.

If you are interested, please visit the webpage mentioned above.

Sincerely,

Thomas Pradeu CNRS Research Director in Philosophy of Science Immunology Unit ImmunoConcEpT, UMR5164, CNRS & University of Bordeaux Team Leader Conceptual Biology and Medicine Team < https://immunoconcept.cnrs.fr/conceptual-biology-medicine/ > Coordinator of the Philosophy in Biology and Medicine Network < https://-www.philinbiomed.org/ > (PhilInBioMed) 146 rue Leo Saignat 33076 Bordeaux, France & Institute for the History and Philosophy of Science and Technology < https://www.ihpst.cnrs.fr/en > Pantheon-Sorbonne University 13 rue du Four, 75006 Paris, France

thomas.pradeu.list@gmail.com

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Colombia PopulationGenomics Jul18-28

The Gen-Pob.org workshop will resume in Medellï¿½n, Colombia from 18 to 28 July 2023, at the Instituto de Biologï¿½a - Universidad de Antioquia. This workshop includes 8 days of instruction in population genomic theory and bioinformatics exercises related to the analysis of genomic data generated using RAD-Seq. Instructors this year include Dr. Kevin McCracken (kevin.g.mccracken@gmail.com) from the University of Miami and Dr. Jeff Peters from Wright State University (jeffrey.peters@wright.edu). Instruction will be in English. Details about the workshop can be accessed at: www.gen-pob.org The workshop will also include an optional two-day field trip to Reserva Natural Caï¿½on del Rï¿½o Claro (https://www.rioclaroreservanatural.com/-es/inicio/). The cost for lodging and transportation is estimated to be approximately $50USD)

There is no cost to the workshop, but registration is required by 25 May.

To apply please send the following to: gen-pob23@gmail.com

1. Name 2. Affiliation 3. Email & telephone 4. Whether you wish to join the field trip 5. 2-page CV or resume

Only about 35 positions are available.

Jeffrey L. Peters, PhD Pronouns: he, him, his Professor of Biology 204A Biological Sciences 3640 Colonel Glenn Hwy Wright State University Dayton, OH 45435

Office phone: 937-775-3173

“Peters, Jeffrey L.” <jeffrey.peters@wright.edu>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

Hinxton UK TreeOfSexV2 Jun19-21

Dear colleagues,

It’s our great pleasure to announce the reboot of the Tree of Sex project. This project was initiated a decade ago with the aim of creating a large database of information on reproductive systems. Since then, a huge amount of additional research has been published concerning reproductive systems, and the genomic era began, giving us an entirely new type of data to incorporate.

The Tree of Sex v2 consortium is already 75 researchers strong, but we are always looking for more collaborators! So, if you are interested in reproductive systems evolution, please get in touch with either Dan Jeffries (daniel.jeffries@unibern.ch) or Kamil Jaron (kj11@sanger.ac.uk) for more info!

Finally, to kick off this new iteration of the Tree of Sex, we are hosting a 3-day workshop on 19.-21. of June 2023 at Hinxton Hall Conference Centre, located on the Wellcome Genome Campus close to Cambridge, UK. Registration for which is now open: https://emdevents.eventsair.com/tree-of-sex/-regpg/Site/Register The workshop will be a combination of research talks and discussions designed in such a way that, by the end of the meeting, we will have:

1. identified and prioritised the key questions in the field of reproductive system evolution. (Monday) 2. formed a standardised strategy for the centralisation of information in the field. (Tuesday/Wednesday) 3. made a clear plan for a community-driven, and sustainable Tree of Sex database. (Tuesday/Wednesday)

The in-person registration covers the conference venue

(with lunches), a celebratory dinner on Monday and two nights at the hotel on campus (Monday/Tuesday). To get as many people on site as possible, we decided to allow a reduced price that requires no justification. If you can pay the full price, however, please, do so - that's what's budgeted for.

The conference will be friendly to participants joining virtually, we have hired AV technicians and all necessary equipment. Talks and discussions will be recorded and posted online as soon as recorded to allow people in different timezones to catch up. The virtual fee is to cover the associated overhead costs.

If there are any queries about the program or registration don't hesitate to ask! Otherwise, we look forward to welcoming you in June!

On behalf of the Tree of Sex v2 organising committee,

Kamil Jaron & Dan Jeffries

Tree of Sex v2 organising committee: Paul Jay, Cibele Sotero-Caio, Sonia Garcia, Tatiana Giraud, LukáÂ Kratochvíl, Dan Jeffries, Kamil Jaron

Follow us on Twitter: @TreeOfSex

The Wellcome Sanger Institute is operated by Genome Research Limited, a charity registered in England with number 1021457 and a company registered in England with number 2742969, whose registered office is 215 Euston Road, London, NW1 2BE.

Kamil Jaron <kj11@sanger.ac.uk>

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Istanbul AnalysisOfBiodiversityData May1-7

Geographic Analysis of Biodiversity Data < https://-/conservation-biodiversity.org/advanced-courses-in-life-sciences/ > This is our great pleasure to invite you to a practical workshop on Geographic Analysis of Biodiversity Data at *Koç University (Istanbul, Turkey)* from *01 to 07 May 2023. **Prof*. *Dr Donald L. Swiderski*, and *Prof. Dr Miriam Leah Zelditch* (from the University of Michigan) will teach how to integrate geographic, shape, and phylogenetic data in the related analysis in a practical way. In this course instructors will introduce different conceptual biological reasons why it might be interesting to examine biodiversity data in a geographic context, focusing on the relationships between species richness, trait similarity, and phylogeny, as well as patterns of turnover in those relationships. In this overview, they will discuss what these can reveal about patterns of community assembly, in situ diversification vs immigration, as well as the potential connections between these patterns and environmental/climatic/elevational gradients. *This course also will be Hybrid, and those people who can not come to the workshop venu*

Course Syllabus *Introduction* 1. Basics of geometric morphometrics 2. Overview of the course 3. Resources 4. Software *Introduction to shape data* 1. Landmarks and semilandmarks 2. Objectives of a shape analysis: How to think about landmark selection 3. Criteria for selecting landmarks 4. When to include semilandmarks 5. How landmarks and semilandmarks differ 6. Digitizing landmarks and semilandmarks *Getting shape data from landmark coordinates* 1. Operations that remove non-shape variation 2. Procrustes superimposition 3. Landmarks 4. Semilandmark sliding 5. Loading datafiles, sliders file, superimposition *Statistical Theory of Shape* 1. Theoretical foundations of shape analysis 2. Shape spaces and distances a. Configuration space b. Space of centered shapes c. Pre-shape space d. The Space Of Aligned Pre-shapes at CS=1 e. Kendall's shape space f. Tangent space g. Revisiting semilandmarks *Coordinate Systems and Ordination Methods* 1. Getting a basis for the tangent space 2. Visualizing variation and interpreting patterns a. Within groups (Principal Components Analysis (PCA)) b. Between groups (Canonical Variates Analysis, Between-group PCA, Finite-Mixture Analysis *Statistics (1)* 1. Introduction to statistics 2. Statistical models 3. Testing for statistical significance 4. Measuring the size of an effect *Statistics (2): More complex designs* 1. Multifactorial models 2. Interaction terms and phenotypic trajectory analysis a. Testing for differences in trajectory direction b. Testing for differences in trajectory length 3. Mixed models 4. Unbalanced designs 5. Types of sums of squares *Phylogenetic Comparative Methods* 1. Phylogenetic Generalized Least Squares 2. Visualizing shape variation in phylogenetic context a. Phylomorphospace b. Phylogenetic Principal components Analysis 3. Modeling the dynamics of phenotypic Evolution *Geographic analyses of shape and phylogenetic disparity* 1. Metrics of shape and phylogenetic disparity 2. Analyzing disparity in geographic context a. Getting geographic data b. Integrating geographic, shape and phylogenetic data 3. Analyzing relationships between geographic, shape and phylogenetic data

When to include semilandmarks How landmarks and semilandmarks Digitizing landmarks *Shape Data*

Landmarks Semilandmarks *Getting from Landmarks to shape* *Landmarks and Semilandmarks*

Statistical theory of shape Ordination Methods Principal Components Analysis Canonical Variates Analysis Between-groups Principal Components Analysis Relative eigenanalysis Statistical Methods Statistical Methods: Ordinary Least Squares Statistical Methods: Generalized Least Squares Modeling dynamics of Phenotypic Evolution

Please contact us for registration or click the link < https://conservation-biodiversity.org/advanced-courses-in-life-sciences/ > *Morteza Naderi, Ph.D.* Res. Assoc. Prof., Wildlife Ecology and Conservation Biology Koç University, Istanbul, Turkey PI of Tubitak 1001 project Director in Charge and founder of Journal of Wildlife and Biodiversity (JWB) https://wildlife-biodiversity.com/index.php/jwb Director in Charge and founder of Scientific Reports in Life Sciences (SRLS) *https://www.scientific-reports.com/index.php/srls

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Medellin Colombia RADSeqPopulationGenomics Jul18-28

The Gen-Pob.org workshop will resume in Medell?n, Colombia from 18 to 28 July 2023, at the Instituto de Biolog?a - Universidad de Antioquia. This workshop includes 8 days of instruction in population genomic theory and bioinformatics exercises related to the analysis of genomic data generated using RAD-Seq. Instructors this year include Dr. Kevin McCracken (kevin.g.mccracken@gmail.com) from the University of Miami and Dr. Jeff Peters from Wright State University (jeffrey.peters@wright.edu). Instruction will be in English.

Details about the workshop can be accessed at: www.gen-pob.org The workshop will also include an optional two-day field trip to Reserva Natural Ca?on del R?o Claro (https://www.rioclaroreservanatural.com/-es/inicio/). The cost for lodging and transportation is estimated to be approximately $50USD)

There is no cost to the workshop, but registration is required by 25 May.

To apply please send the following to: gen-pob23@gmail.com

1. Name 2. Affiliation 3. Email & telephone 4. Whether you wish to join the field trip 5. 2-page CV or resume

Only about 35 positions are available.

Thank you!

Jeffrey L. Peters, PhD Pronouns: he, him, his Professor of Biology 204A Biological Sciences 3640 Colonel Glenn Hwy Wright State University Dayton, OH 45435

Office phone: 937-775-3173

jeffrey.peters@wright.edu

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MountainLake GraduateCareerEvolution Jul29-Aug5

FREE REGISTRATION now available for student members of the American Naturalist. Funds are limited and will be distributed on a rolling basis.

Join Drs. Amanda Gibson (University of Virginia), Idelle Cooper (James Madison University), Jeremy Draghi (Virginia Tech), and Corlett Wood (University of Pennsylvania) for a six-day workshop on evolutionary biology for early career graduate students. During this week, you'll have the time and support to think deeply about the evolutionary questions that excite you and to engage in focused conversations with a small group of peers. As your group shapes ideas into a research proposal, you'll practice communicating with one another and articulating yourself in writing. The workshop will also include tutorials on the art of science writing and question development.

We have found this workshop to be particularly valuable for students who are early in their PhD, prior to writing their dissertation proposal. We assume some prior experience working in the field of evolutionary biology. Come prepared to work with your group on a wide range of evolutionary questions and approaches that may fall outside your area of expertise!

Workshop dates: July 29 - August 5, 2023 Enrollment

limit: 16 Cost: $300 (with financial assistance available) Deadline for cancelation with refund: July 21, 2023 Location: Mountain Lake Biological Station, Pembroke, Virginia

For more information and to register, visit https://mlbs.virginia.edu/evolutionary-biology-workshop Amanda Kyle Gibson, Ph.D. Assistant Professor (she/her)

Physical Life Sciences Building, RM 408 Department of Biology University of Virginia Charlottesville, VA

Email: akg5nq@virginia.edu Website: https://coevolving.org/ "Gibson, Amanda K (akg5nq)" <akg5nq@virginia.edu>

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Online BioinformaticsSummerSchool Jul3-7

Dear all,

registration is now open for the Physalia Summer School in Bioinformatics: (https://www.physalia-courses.org/courses-workshops/course68/)

Dates: (online) July 3rd-7th

This course will introduce participants to the field of Next Generation Sequencing biology, understanding both the concepts and handling of the data. We will cover a broad range of software and analyses from quality assessment of sequencing runs, through assembling and annotating small genomes, RNAseq and differential gene expression, and phylogenomics with NGS data. Primarily focussed on Illumina data, we will also look at the different requirements and opportunities when utilising long-read data (Nanopore/PacBio). This course will be accompanied by sessions on the use of Docker, which is the preferred platform for most bioinformatic analyses, as well as software containers, with a particular focus on best practices for reproducibility.

Full list of our courses and Workshops: (https://www.physalia-courses.org/courses-workshops)

Should you have any questions, please do not hesitate to contact us at info@physalia-courses.org

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

"info@physalia-courses.org" <info@physalia-courses.org>

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Online BiologicalNetworkAnalysis Sep11-14

Dear all,

registration is now open for our course "Network Analysis in Systems Biology with R/Bioconductor".

Dates: online, September 11th-14th

This course will introduce participants with the inference and analysis of biological networks from RNA-seq data using R and Bioconductor packages. The course will cover data structures for quantitative data and graphs, statistical methods for network inference, functional analyses of biological networks, and network comparison. At the end of the course, participants will be able to infer and analyze gene coexpression networks (GCNs) and gene regulatory networks (GRNs), compare networks, and integrate GCNs with genetic markers to prioritize candidate genes associated with traits.

The course is targeted to researchers and students that would like to learn how to use R and Bioconductor to infer and analyze networks for systems biology projects.

Course website: (https://www.physalia-courses.org/courses-workshops/network-in-systems-biology/)

ull list of our courses and Workshops: (https://www.physalia-courses.org/courses-workshops/)

Should you have any questions, please feel free to contact us: info@physalia-courses.org

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

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Online ConservationGenomics Jul24-27

Dear all,

registration is now open for the 3rd edition of the Conservation Genomics course.

Dates: online, July 24th-27th

Couse website: (https://www.physalia-courses.org/-courses-workshops/course62/)

This course will introduce attendees to how the tools of population genomics can be used to inform conservation. The instructors will guide students through study design, genomic data collection methods, handling of raw genomic data, and SNP filtering to produce a dataset. Then, we will work through a suite of analyses looking at population structure, local adaptation, effective population size, inbreeding and relatedness. We will provide background on the theory and application of these analyses, and then run hands-on exercises running analyses and interpreting results. Through hands-on exercises, the course will teach basic bioinformatics skills and how to manipulate, visualize and interpret genomic data and patterns in a conservation related context.

Full list of our courses and Workshops: (https://-www.physalia-courses.org/courses-workshops)

Should you have any questions, please do not hesitate to contact us at info@physalia-courses.org

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

“info@physalia-courses.org” <info@physalia-courses.org>

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Online IntroMacroevolutionaryPhylogenies May29-Jun2

Dear colleagues,

There is a new (11th) edition of Transmitting Science course “Introduction to Macroevolutionary Analyses Using Phylogenies”.

Format: Live Online (synchronous). Places are limited to 15 participants.

Dates and schedule: May 29th - June 2nd, 2023 from 15:00 to 19:00 (Madrid time zone). 20 hours of online live lessons, plus 20 hours of pre-recorded classes and assignments.

Instructor: Dr. Juan L. Cantalapiedra [1] (Universidad de Alcalï¿½, Spain)

More information and registration: https://-www.transmittingscience.com/courses/evolution/-introduction-macroevolutionary-analyses-using-phylogenies/ Course Overview

Phylogenetic trees have changed the way we study and understand life on Earth. Taking phylogenetic information into account in our analyses is critical to account for the non-independence of biological data. Also, phylogenies allow us to get a deep-time perspective of the processes that have shaped the evolutionary history of groups, including diversification and trait evolution.

This course will introduce participants to the use, modification and representation of phylogenetic trees. Also, we will focus on the use of phylogenetic information to reconstruct ancestral characters and biogeographic histories, using different phylogenetic comparative methods.

This course will also tackle trait evolution modelling and the assessment of phylogenetic signal. Finally, we will learn about the shape of phylogenetic trees and its evolutionary causes, and how to estimate the rates of diversification throughout the history of groups. Participants are encouraged to bring their data sets to use in the practical classes.

The course includes an optional first introductory day to basic R.

Important note: Please bear in mind that this course is not about reconstructing (building) phylogenetic trees.

Software: Mesquite, FigTree, R (ape, TreeSim, TreePar, Geiger, OUwie, BioGeoBEARS).

Best wishes

Sole

Soledad De Esteban-Trivigno, PhD Director Transmitting Science www.transmittingscience.com Twitter @SoleDeEsteban Orcid: https://orcid.org/0000-0002-2049-0890 Under the provisions of current regulations

on the protection of personal data, Regulation (EU) 2016/679 of 27 April 2016 (GDPR), we inform you that personal data and email address, collected from the data subject will be used by TRANSMITTING SCIENCE SL to manage communications through email and properly manage the professional relationship with you. The data are obtained based on a contractual relationship or the legitimate interest of the Responsible, likewise the data will be kept as long as there is a mutual interest for it. The data will not be communicated to third parties, except for legal obligations. We inform you that you can request detailed information on the processing as well as exercise your rights of access, rectification, portability and deletion of your data and those of limitation and opposition to its treatment by contacting Calle Gardenia, 2 Urb. Can Claramunt de Piera CP: 08784 (Barcelona) or sending an email to info@transmittingscience.com or http://transmittingscience.com/additional-terms. If you consider that the processing does not comply with current legislation, you can complain with the supervisory authority at www. aepd.es . Confidentiality. - The content of this communication, as well as that of all the attached documentation, is confidential and is addressed to the addressee. If you are not the recipient, we request that you indicate this to us and do not communicate its contents to third parties, proceeding to its destruction. Disclaimer of liability. - The sending of this communication does not imply any obligation on the part of the sender to control the absence of viruses, worms, Trojan horses and/or any other harmful computer program, and it corresponds to the recipient to have the necessary hardware and software tools to guarantee both the security of its information system and the detection and elimination of harmful computer programs. TRANSMITTING SCIENCE SL shall not be liable.

Links:

[1] https://www.transmittingscience.com/instructors/-juan-l-cantalapiedra/ Soledad De Esteban-Trivigno <soledad.esteban@transmittingscience.com>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

Online ProkaryoticPangenomics Apr12-14 LastCall

Dear all,

this is your last call to sign up for the course "ANALYSIS OF PROKARYOTIC PANGENOMES".

Dates: online, April 12-14

Course website: (https://www.physalia-courses.org/-courses-workshops/prokaritotic-pangenomes/)

In this course, you will be introduced to the study of pangenomes and their implications in biological research. You will also be given the chance to put theory into practice. By the end of the first day, you will have analysed a set of bacterial genomes to illustrate their pangenome. On day 2, you will assess the extent to which sets of genes evolve together in pangenomes and make inferences about the implications of this in a range of biological fields. Finally, in day 3, you will have the chance to design your own bespoke analysis, putting the theoretical and practical knowledge gained in the first two days into practice with the aid of the course leads.

This course is aimed at scientists at the level of graduate student, post-doctoral researcher or academic looking to understand the field of pangenomics. All the practicals will use the unix command line, which can be accessed via mac, linux or though the ubuntu app or a virtual machine on windows. Although not essential, it would be beneficial to have some experience of unix. In addition to this, an understanding of basic genetics, genomics and evolutionary biology will aid understanding of the concepts discussed.

Instructors: Prof. James McInerney and Dr Alan Beavan (University of Nottingham)

Full list of our courses and Workshops: (https://-www.physalia-courses.org/courses-workshops/)

Should you have any questions, please feel free to contact us: info@physalia-courses.org Best regards,Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

"info@physalia-courses.org" <info@physalia-courses.org>

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Online scRNAseqWithR Jun5-9

Dear all,

there are still a few seats available for the 4th edition of the course "SINGLE-CELL RNA-SEQ ANALYSIS WITH R/BIOCONDUCTOR"

Dates: online, June 5th-9th

Course website: (https://www.physalia-courses.org/-courses-workshops/course18/)

This course will introduce biologists and bioinformaticians to the field of single-cell RNA sequencing. We will cover a range of software and analysis workflows that extend over the spectrum from the best practices in the filtering scRNAseq datato the downstream analysis of cell clusters and temporal ordering.

This course will help the attendees gain accurate insights in pre-processing, analysis and interpretation of scRNAseq data.We will start by introducing general concepts about single-cell RNA-sequencing. From there, we will then continue to describe the main analysis steps to go from raw sequencing data to processed and usable data. Finally, we will focus more specifically on the different analyses strategies to use in order to extract information from genomic datasets such as Hi-C, ATAC-seq or ChIP-seq.

Full list of our courses and Workshops: (https://-www.physalia-courses.org/courses-workshops/)

Should you have any questions, please feel free to contact us: info@physalia-courses.org

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

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Oslo NatHistMuseum EvolutionaryTimeSeries Jun12-15

The analysis of evolutionary time series

We are hosting a 4-day, NSF and ERC funded workshop starting the evening of June 12 through midday of June 15, 2023, at the Natural History Museum in Oslo, Norway. The topic is analysis of evolutionary time series (ETS), both paleontological and from modern populations. The purpose of this gathering is to connect the community of ETS researchers, learn about the history of the field, get to know available tools to for ETS analysis, and foster new insights and research. There will be a seminar and a workshop teaching evoTS, a new statistical package for time series analysis, as well as time to explore Oslo.

If you are interested in attending, please contact Yoel Stuart (ystuart@luc.edu) by May 1, 2023. If you wish to apply for an award to cover your travel and accommodation (up to $1500 depending on flights), please submit a ï¿½ page application that describes your interest and why you would like a travel award, by April 22, 2023, to Yoel Stuart (ystuart@luc.edu). Preference will be given to graduate students and postdoctoral researchers, though faculty may apply. We hope to see you in June. Please help us spread the word.

(More information, including a workshop website link, after registration)

Yoel E. Stuart, Department of Biology, Loyola University Chicago

(stuartlabloyola.org)

Kjetil L. Voje, The Natural History Museum, University of Oslo (kjetillysnevoje.wordpress.com/)

"Stuart, Yoel" <ystuart@luc.edu>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

Poznan Poland Bioinformatics Jul3-6

Dear Colleagues,

We are pleased to invite you to participate in the fourteenth edition of the Poznań Summer School of Bioinformatics organized by the Faculty of Biology of Adam Mickiewicz University, Poznań, Poland.

The course will be held from July 3 to 6, 2023 at the Faculty of Biology, AMU. The title of this year's edition is Analysis of single-cell data, which will cover the following topics:

Introduction to R Introduction to Bioconductor scRNA-seq Data Analysis Single Cell Metabolomics

Correlation-based Network Analysis of Metabolites

The course is suitable for beginners as well as for those with basic knowledge in the field of bioinformatics and will be held in English. The course will be largely hands-on, allowing you to familiarize yourself with the topics discussed and to practice the problems presented.

More information can be found at: https://-pssb.amu.edu.pl/ Please forward this information to anyone who may be interested.

Looking forward to your participation, PSSB Organizing Committee

Contact: genomics@amu.edu.pl

"genomics@amu.edu.pl" <genomics@amu.edu.pl>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca)

SLiMEvolModeling Five Aug28 Apr29 May13 May27 Jun10

Hi all!

There will be a SLiM Workshop this year, August 28 - September 1, 2023, at Harvard University in Cambridge, MA. —It will be hosted by several Harvard folks: Daren Card, Tim Sackton, and Javier Maravall. —It will be free, and open to participants outside of the university. —HOWEVER, registration is required, and a limited number of seats are available. —Note that Harvard internal applicants will have registration priority until May 5th; other applicants will be on standby until May 6th, when it will become first-come-first-served and people will be admitted in the order in which they applied. —(Please DO NOT make travel arrangements until you have been formally accepted to the workshop.) —Early application is advised; these workshops often fill to capacity.

As background: SLiM is a software package for creating evolutionary models/simulations that are individual-based and genetically explicit. —It is scriptable, flexible, fast, free, open-source, and includes an interactive graphical modeling environment. —You can read more about it on its home page (https://messerlab.org/slim/).

To apply to the Harvard workshop, please send an email to Daren, Javier, and myself (but not Tim). —Please use the addresses dcard@fas.harvard.edu, fmaravalllopez@fas.harvard.edu, and bhaller@mac.com, and include the info below:

(1) your name, (2) your university or institutional affiliation including the name of the lab you are in, (3) a link to a research website or similar academic page, if you have one, (4) a 1-2 sentence description of your level of experience with SLiM and any other forward genetic simulation software, if any, (5) a 1-2 sentence summary of why you want to attend the workshop (i.e., the connection to your research), (6) 1-2 sentences about any specific topics within SLiM that you hope to learn about in the workshop, and (7) A sentence stating that you are up-to-date on your COVID vaccinations, including all booster shots recommended by the U.S. CDC. —Note that you may be required to provide proof of vaccination prior to attending. —Further information for attendees, including details on our COVID policy, can be found athttp://benhaller.com/workshops/-workshops_attendees.html. —Note that you will be responsible for your own lodging and your own transportation. —Please do not apply to the workshop unless you are sufficiently serious that you will actually attend, if accepted.

The plan is to cover all the major topics in the SLiM manual, starting with lots of introductory material to get beginners up to speed with SLiM and its associated scripting language Eidos, and ending up at advanced topics like non-Wright-Fisher models, tree-sequence recording, continuous-space models, nucleotide-based models, and multispecies models. —We won't cover everything in the manual - that would be overwhelming! - but we'll try to cover all the big topics. —There will also be time for attendees to work on their own models with help

from me, and we may also have time to explore some optional side topics that are of particular interest to those attending each workshop. —The workshop will be taught principally using SLiMgui, SLiM's graphical modeling environment. —SLiMgui is cross-platform on macOS, Linux, and Windows. —Every attendee will need their own laptop with SLiM and SLiMgui installed (see the info for attendees page for more information on software and hardware requirements). —Loaner laptops are sometimes available for workshops, for those who do not have one; please let us know if you will need one.

Please spread the word so more folks hear about this; feel free to share this announcement on social media and such. —Also, I'm hoping to continue doing workshops in future; if you would like to invite me to give a workshop at your institution, please send me an email (off-list).

Cheers,

Benjamin C. Haller Messer Lab Cornell University

Hi folks!

I'm excited to announce a SLiM Workshop April 29 - May 3, 2024 (NEXT YEAR) in Stockholm, Sweden, hosted by David Diez del Molino (diez.molino@gmail.com). The host institution is the Centre for Palaeogenetics.— Note that this is one of four workshops that will be given in Europe in 2024; please see other announcements on this list.— It will be free, and open to participants outside of the hosting institution. —HOWEVER, registration is required, and a limited number of seats are available in each. —These dates are a long way out at this point, obviously! —I do expect some or all of these Europe workshops to fill, though - a lot of demand built up during the COVID years! - so you might not want to wait too terribly long to register, if you can make

— / —

This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

Vairao Portugal PlantEvolGenomics May15-26 DeadlineExt

Dear colleagues

We still have places available for two international workshops in plant evolutionary genomics taking place in May (15-19 and 22-26) in Vairão, region of Porto, Portugal. Talks and classes are given by internationally known researchers in the field. Don't miss this opportunity! Deadline for registration has been extended to April 17.

TRAINING AND RESEARCH WORKSHOP IN "EVOLUTIONARY GENOMICS FOR PLANT MODELS AND CROPS"

May 15-19, 2023 | CIBIO-InBIO, Vairão, Portugal

We are pleased to announce that the second edition of the Training and Research Workshop in "Evolutionary genomics for plant models and crops" will take place at CIBIO-InBIO/BIOPOLIS, Campus de Vairão, University of Porto, Portugal,from 15 to 19 May 2023. For those who attended the first edition, please note that topics and 2/3 of the speakers have changed! We have again this year top-level speakers coming in-person from many European institutions. This workshop is meant for PhD students but will also be opened to Master students and post-docs. It will present major on-going research topics in plant evolutionary genomics, covering both methodological and biological questions, fundamental and applied perspectives, model plants and crops. Each theme (day) will be covered by 2 talks given by international specialists and a round table with both speakers moderated by an in-house researcher from the field. Talks will be 1h30 research-oriented lectures (with 30 min of a general/large scope introduction on the subject). A lot of interaction is expected during these lectures: questions will be asked during the talks and at the round table. The workshop is also meant to be a platform for connecting students and labs in this field, internationally.

Registration deadline :April 17, 2023 All applicants will be notified about whether they are accepted until April 19, 2023.

The program, practical information and registration platform can be found HERE

This workshop will be followed by a hands-on bioinformatics course on plant genomics (BigOmics - High Throughput Genetic Diversity Analyses Of Tropical Crops) on May 22-26 in the same site. You can find information and apply for this course HERE Participation is free of charge for BIODIV and Univ. of Montpellier students.

Raquel Tavares <raquel.tavares@cibio.up.pt>

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Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notifcation of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that 'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as LaTeX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category "Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:" and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formated) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by LaTeX do not try to embed LaTeX or TeX in your message (or other formats) since my program will strip these from the message.