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# E v o l D i r

January 1, 2024

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

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## 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](mailto: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

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### DukeU NewScientist PlantEvol Jun5-8

6 days to go! Apply to attend New Phytologist next generation scientists 2024 by 6 December 2023.

New Phytologist next generation scientists is a unique symposium organised exclusively for early career researchers, by early career researchers. 2024's symposium will be held on 5-8 June at Duke University, Durham, NC, USA.

Apply here: <https://nextgenerationscientists.evessiocloud.com/2024/en/page/home> Who is it for? All plant science post-graduate researchers working towards a PhD, or for early career researchers who completed their PhD no more than five years ago.

What's included? Registration and accommodation are fully funded by the New Phytologist Foundation. Delegates will receive three nights of accommodation in the student halls of residence at Duke University, on 5, 6 and 7 June 2024.

Are travel grants available? You can apply for a travel grant as part of your application.

How do I apply to attend? Apply to attend here. You will need to provide:

\* A poster abstract \* A personal statement (200 words) addressing why you want to attend the symposium, and how it will benefit your career development \* Your curriculum vitae \* A letter of recommendation / reference (up to 500 words) from a scientist who has agreed to support your application, usually your group leader or someone who knows your work well

Applications close on 6 December! Don't miss out.

Apply here: <https://nextgenerationscientists.evessiocloud.com/2024/en/page/home> Dr Mike Whitfield (he / him), Development Coordinator The New Phytologist Foundation <<https://www.newphytologist.org/>> | Registered charity number 1154867 Twitter & Instagram: @newphyt | Facebook: fb.com/NewPhytologist

Dedicated to the promotion of plant science

“Whitfield, Mike (whitfiel)”  
<m.whitfield@lancaster.ac.uk>

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### Lausanne IUSSI SocialInsectsMicrobes Jul24

Dear colleagues and friends

Abstract submission is open for the 2024 European IUSSI congress, which will take place from the 7th to the 11th of July in Lausanne, Switzerland. We would welcome your abstract submission on the interactions of social insects with their microbiomes, from symbionts to pathogens, to our symposium “Social insects and their microbial communities” (invited speakers: Robert Paxton and Waldan Kwong). The deadline for abstract submission is the 15th of February. <https://wp.unil.ch/iussi-europe-2024/registration/> Have a great start to 2024 and hope to see you in Lausanne!

Lena Wilfert & Vincent Doublet

Lena Wilfert <lena.wilfert@uni-ulm.de>

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ing@mcmaster.ca)

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## LundU Evolution Mar12-1th

Conference at Lund University, Sweden: New perspectives in ecology and evolution, March 12th-15th <https://nordicsocietyoikos.glueup.com/event/nordic-oikos-2024-80737/> The event organized by the Nordic society for ecological research, OIKOS.

The conference includes 14 different thematic sessions, covering a wide range of topics including species interactions, mechanistic modelling, urban ecology, computer vision, eco-evolutionary dynamics, pollination, biodiversity and many more. Check out the full list of session topics here: <https://nordicsocietyoikos.glueup.com/event/-nordic-oikos-2024-80737/thematic-sessions.html> Questions? Contact us at oikos2024@nordicsocietyoikos.org or info@nordicsocietyoikos.org.

We are looking forward to welcoming you in Lund!

The Nordic Oikos 2024 organizing team

Anna Runemark <anna.runemark@biol.lu.se>

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## LundU Sweden EcolEvolution Mar12-15

Conference: Lund U, Sweden, New perspectives in ecology and evolution-conference, March 12th-15th

Next year's biannual conference of the Nordic Society Oikos will have a more evolutionary focus. We will have 14 different thematic sessions, covering a wide range of topics including mechanistic modelling, urban ecology, computer vision, eco-evolutionary dynamics and many more.

Check out the full list of session topics here: <https://nordicsocietyoikos.glueup.com/event/nordic-oikos-2024-80737/thematic-sessions.html> ABSTRACT SUBMISSION IS 15 DECEMBER. To submit an

abstract, click the register button on the conference webpage and choose the 'abstract ticket'.

Questions? Contact us at  
oikos2024@nordicsocietyoikos.org or  
info@nordicsocietyoikos.org.

The Nordic Oikos 2024 organizing team

Dr Michael Tobler Department of Biology | Lund University | Ecology Building | SE-223 62 Lund | Sweden  
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Michael Tobler <michael.tobler@biol.lu.se>

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## Madrid PlantEvolution Jul21-27

Dear Colleagues,

The XX International Botanical Congress (IBC) will be held in Madrid from July 21-27, 2024. This is an exceptional forum for a wide range of topics related to botany, including plant evolution. It is also the Congress with the longest history in plant science (since 1900), and because it is held only every six years, each one is a very special, historic event.

<https://ibcmadrid2024.com/index.php> There are important deadlines coming up. The deadline for submitting abstracts for symposium presentations is not far away (December 8, 2023), but abstracts can be edited until February 1, 2024. The abstract submission deadline for poster presentations remains open until February 1, 2024.

Registration is also open. Reduced fees are available for students and participants from low- and middle-income countries. Early bird registration will close on February 29, 2024.

<https://ibcmadrid2024.com/index.php?seccion=registrationArea&subSeccion=onlineRegistration> Do not miss this event!

Gonzalo Nieto Feliner

Gonzalo Nieto Feliner Research professor Real Jardí­n Botánico (CSIC) Plaza de Murillo 2, 28014 Madrid (Spain) Phone: + 34 914203017 Fax: + 34 914200157 E-mail:nieto@rjb.csic.es

<http://www.rjb.csic.es/jardinbotanico/jardin/-contenido.php?Pag=413&tipo=cientifico&cod=->

71&len=es <https://scholar.google.es/citations?user=-bgDGBXUAAAAJ&hl=es> Save the date for the XX International Botanical Congress <https://ibcmadrid2024.com/index.php> Join us in the Fourt Annual Symposium of Spanish Botany <https://www.simsebot.org> Become a member of the International Association for Plant Taxonomy <https://www.iaptglobal.org/> Gonzalo Nieto Feliner <nieto@rjb.csic.es>

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## Online CIGENE AlgalGenomes Dec6

Dear colleagues,

The final seminar of the CIGENE Autumn series takes place next week, Wednesday 6th December, 12:00-12:40 (Central European standard time, GMT+1). See details below.

Speaker: Yawako Kawaguchi, National Institute of Genetics, Japan

Title: Genomic Factors and Impacts of Genomic Size Variation in the Unicellular Green Alga, *Closterium* psl. Complex

Abstract: Genome sizes are known to vary within and among closely related species, but the knowledge about genomic factors and their impacts on gene functions is limited to a few species. We identified a more than two-fold heritable genome size variation in the unicellular alga, *Closterium* psl. complex. Whole genome sequencing revealed that the variation was primarily due to genome-wide copy number variation (CNV), rather than specific repeat sequences. In this talk, I will discuss the reasons behind the maintenance of extensive CNVs in the alga, focusing on their functional bias and expression patterns.

Zoom link: <https://nmbu.zoom.us/j/67064421833> Hope to see you there.

Kind regards,

Junsoung Kwak

“[junsoung.kwak@nmbu.no](mailto:junsoung.kwak@nmbu.no)” <[junsoung.kwak@nmbu.no](mailto:junsoung.kwak@nmbu.no)>

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## Online ESEB STN Speciation Dec5

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 05 December 2023, 5 pm CET.

The upcoming session addresses the topic of “Macroecological perspectives on speciation”. We welcome speakers Catherine Wagner (University of Wyoming, USA) and Carlos Daniel Cadena Ordoñez (Universidad de los Andes, Colombia).

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/64487667210> Talks (but not the discussion session) are recorded and made available here: [https://www.youtube.com/channel/UCIEkDdE\\_5sDw70SQq78DIAA](https://www.youtube.com/channel/UCIEkDdE_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](http://www.cooneylab.co.uk) Chris Cooney <c.cooney@sheffield.ac.uk>

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## Online TransposableElements Feb21-Feb28

Dear colleagues,

the third edition of the conference “Transposable Elements in human evolution and diseases” will be in February 2024.

This year there will be two separate symposia:

TEs in human evolution: 21st February 2024; TEs in human diseases: 28th February 2024.

We also opened a call for abstracts! Up to six abstracts will be selected for 15 minutes talks + 5 minutes Q&A. Abstract submission closes on 14th February at 6pm (CET).

You can find all the info on the website: <https://transposableelementsbrain.wordpress.com/> Yours sincerely,

Giorgia Modenini [giorgia.modenini2@unibo.it](mailto:giorgia.modenini2@unibo.it)

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Giorgia Modenini <[giorgia.modenini2@unibo.it](mailto:giorgia.modenini2@unibo.it)>

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## Toulouse EnvironmentalGenomics Feb14-16

Dear all, France Génomique and the Research Group “Environmental Genomics” (GDR GE) are pleased to inform you of their upcoming Symposium on Environmental and Agronomical Genomics which will be held in Toulouse, France from February 14 to 16, 2024.

Topics Covered Genomics of plants and animals and their microbiota Exploring diversity and evolution of Life Exploring ecosystems using metagenomics Genomics of biological interactions: holobionts, pathogens, symbionts Technological advances: producing and analyzing genomic data Pangenome and structural variants Ancient DNA and paleo-environments

Monitoring of ecosystems functioning and health / Eco-exposome Environmental genomics and collaborative science, a window on society

Confirmed Speakers A. Baud, CRG, Barcelona, Spain S. Déjean, IMT, Toulouse, France A. Fernandez Guerra, University of Copenhagen, Denmark C. Marchet, CNRS, Lille, France L. Orlando, CAGT, Toulouse, France I. Ourliac-Garnier, Nantes University, France J. Reveillaud, INRAE, Montpellier, France F. Sabot, IRD, Montpellier, France S. Sunagawa, ETH, Zürich, Switzerland S. Terrat, INRAE Dijon, France C. Voolstra, University of Konstanz, Germany C. Welte, Radboud University, The Netherlands

Registration and call for abstracts are still open! Deadline coming soon! All information here: <https://eags2024.sciencesconf.org/> Abstract submission deadline: December 15, 2023 Registration deadline: January 12, 2024

We look forward to seeing you all in Toulouse, The OC ([eags2024@sciencconf.org](mailto:eags2024@sciencconf.org)): Marie-Thérèse Bihoreau, France Génomique, Fontenay-aux-roses

Lucie Bittner, ISYEB, Paris Denis Faure, CNRS, I2BC, Gif sur Yvette Denis Milan, INRAE, Genotoul, GeT-PlaGe, Toulouse Eric Pelletier, Genoscope, CEA, Evry Aude Perdereau, France Génomique, Evry Jean-Christophe Simon, INRAE, IGEPP, Rennes

Patrick Wincker, Genoscope, CEA, Evry

Aude Perdereau <[aude.perdereau@genoscope.cns.fr](mailto:aude.perdereau@genoscope.cns.fr)>

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## Tuscany GRC QuantGenetics Feb16-21 2025

The 2025 GRC on Quantitative Genetics and Genomics is scheduled for February 16-21, 2025 at Renaissance Tuscany Il Ciocco, Lucca (Barga), Italy. The associated GRS is scheduled for February 15-16 at the same location.

More information to follow.

Best wishes

Na Cai, Helmholtz Centre, Munich. Josephine Pemberton, Institute of Ecology and Evolution, University of Edinburgh. Cassandra Spracklen, School of Public Health and Health Sciences, U. Mass. Amherst Gustavo de los Campos, Dept Epidemiology and BioStatistics, Michigan State University.

The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. Is e buidheann carthannais a th' ann an Oilthigh Dh'À<sup>1</sup>n Àideann, clàraichte an Alba, àireamh clàraidh SC005336.

Josephine Pemberton <J.Pemberton@ed.ac.uk>

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## YosemiteNatlPark Symbiosis Apr19-21

Dear Colleagues,

The TWELFTH annual Yosemite Symbiosis Workshop will take place on April 19-21st, 2024 at the Sierra Nevada Research Institute, Yosemite National Park. In the previous 11 years, this meeting became a great venue for a diversity of symbiosis researchers.

We hope to continue to attract a diverse group in 2024!

KEYNOTE SPEAKER: Kabir Peay, Stanford University <https://mykophile.stanford.edu/> REGISTRATION WILL OPEN IN EARLY 2024 Find updates here: <https://www.sachslab.com/symbiosis-2015.php>

Why: Our goal is to better integrate scientists that focus on symbiosis research, including researchers that study

animal-microbe and plant-microbe systems, as well as broader topics related to the microbiome, cooperation, and mutualism. This will be our 12th annual meeting and we have been consistently attracting scientists from all over the country and overseas.

Who: The meeting is small and intimate by design (~50 participants). We would like to make room for a diverse group of people so we will initially accept up to 3 lab members per group (including the PI) on a first come first served basis. In the past we have covered a range of symbiosis topics from ecology and evolution to molecular mechanisms in different model and non-model systems.

What: The meeting will be made up of two half-days of talks and one poster session. Other than the keynote (~1 hour), talks are 15 minutes long (including time for questions). Posters are flexible for size, but the ideal poster should be no larger than ~4 feet square. When you apply for the meeting, you will provide your preference for a talk or poster.

When: Participants generally arrive Friday afternoon or evening (April 19) and depart Sunday early afternoon (April 21). Though some attendees often extend their stay at the station to spend more time at the National Park.

Where: This is the best part! The meeting takes place at the Sierra Nevada Research Station, in Wawona California, within the borders of Yosemite National Park!

What will it cost? More good news here! We have received continued generous funding from the Gordon and Betty Moore Foundation. This will allow us to provide FREE REGISTRATION to graduate students and postdoc presenters.

Even without the awards, we have been good at keeping costs low (<\$300 total for PIs, includes all fees: registration, room and board).

Please direct any questions to the organizers:

Joel Sachs [joels@ucr.edu](mailto:joels@ucr.edu) A. Carolin Frank [cfrank3@ucmerced.edu](mailto:cfrank3@ucmerced.edu)

\*Joel L. Sachs\* \*Professor & Chair, \* Evolution Ecology & Organismal Biology University of California, Riverside Chair's Office 2745 Life Sciences Building Office (951) 827-6357 / Fax (951) 827-4286 / <http://www.sachslab.com> Zoom: <http://ucr.zoom.us/my/-Sachsevolution> \*Post address\*: Sachs Lab - UC Riverside 3401 Watkins Dr., 1229 Spieth Hall, Riverside, CA 92521

Joel Sachs <[joels@ucr.edu](mailto:joels@ucr.edu)>

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## GradStudentPositions

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### AuburnU EvoDevo

The Range lab at Auburn University is recruiting graduate students interested in evolutionary and developmental biology ([www.therangelab.com](http://www.therangelab.com)). Research in the lab focuses on understanding the evolution of developmental mechanisms that control early axis formation using the comparative models of temperate and Antarctic echinoderm sea urchins as well as hemichordate acorn worms.

A current NIH-funded research project uses sea urchin embryos to explore how an interconnected network of three different Wnt signaling pathways (Wnt/Beta-catenin, Wnt/JNK, and Wnt/Ca<sup>2+</sup>) coordinate the specification and patterning of the anterior-posterior axis during early embryogenesis. We also use hemichordate embryos to compare and contrast early anterior-posterior axis formation between these phyla to provide insight into anterior-posterior axis formation in the common deuterostome ancestor.

Another newly funded NSF project focuses on uncovering adaptations to the early gene regulatory networks used by the cold-water sea urchin species *Sterechinus neumayeri* that allow them to develop at sub-freezing

temperatures. We anticipate that this study will not only inform our understanding of the molecular mechanisms required for adaptation to an extreme environment but also will provide insight into how early embryonic developmental rate is controlled in sea urchins as well as other metazoans.

The positions are for masters and PhD students beginning in the Fall of 2024. Students will have the choice to work on any number of projects in the lab. The positions offer training in a combination of molecular manipulations, high-throughput genome-wide assays and bioinformatics, gene regulatory network analysis as well as classical embryology.

Auburn is a Tier 1 research institution with great facilities and research support. The university is situated in the quintessential college town of Auburn, Alabama and is located close to several major cities (e.g., Atlanta [1.25 hrs] and Birmingham [2 hrs]), the beaches along the Gulf and Atlantic coasts, and the Appalachian Mountains. You can learn more about the Department of Biological Sciences at Auburn University at <http://www.auburn.edu/cosam/departments/biology/>. Interested applicants should contact Dr. Ryan Range at [range@auburn.edu](mailto:range@auburn.edu). With your inquiry, please include a CV and a brief description of your research interests and experience. GRE scores are not required by the Department of Biological Sciences at Auburn.

Applications for Fall 2024 are accepted until February 1st, 2024.

Ryan Range <rangepurp@gmail.com>

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## AuburnU UndergradEvolBioEdResearch

Graduate student positions in Biology Education Research at Auburn University

The Ballen lab at Auburn University is seeking PhD and Master's students to develop projects centered around Biology Education Research with a start date of Fall 2024.

We are specifically looking for students who have a Biology Undergraduate/M.S. degree and are interested in applying their knowledge of biology to improve undergraduate biology education.

While students are encouraged to pursue their own specific research interests, current work in the lab can be split into two broad avenues of inquiry: (1) The impacts of promoting counter-stereotypical role models on student outcomes and (2) The impacts of contextualizing societal and ethical considerations into biology curricula. Through large-scale collaboration across many institutions, work in the lab advances understanding of effective and inclusive teaching through integrating research and education in STEM.

Check us out here! Ballenlab.com

At Auburn University, graduate students are financially supported by teaching assistantships with the possibility of some semesters being funded by research assistantships. Auburn also offers competitive internal fellowships, and I would be happy to assist students as they apply for the NSF Graduate Research Fellowships Program (GRFP).

The Department of Biological Sciences (DBS) hosts a Recruitment Weekend Event in mid-January and I would be happy to bring folks out who are interested in joining the lab Fall 2024. The deadline to apply for the graduate program is February 1. Email me for more details!

More info on DBS: <https://www.auburn.edu/cosam/-departments/biology/index.htm> More info on our

graduate program: [https://www.auburn.edu/cosam/-departments/biology/graduate\\_programs/index.htm](https://www.auburn.edu/cosam/-departments/biology/graduate_programs/index.htm)

Potential applicants should email the following to: mjb0100@auburn.edu - Cover letter highlighting your relevant research experience, why you are interested joining the lab, as well as any additional information you'd like us to know about you - Curriculum vitae (CV)

mjb0100@auburn.edu

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## BielefeldU Two RaptorEvolution

The Raptor-research group at the Department of Animal Behaviour is searching for a new team-member with a focus on behavioural experiments in the field for the beginning of 2024. Our research group studies the ecology of local raptor species regarding the behavioural ecology and interactions of Common Buzzards (*Buteo buteo*), Goshawks (*Accipiter gentilis*) and Eagle Owls (*Bubo bubo*). The Eagle Owl has experienced an impressive comeback in the last decades. At the same time this species does not only exert pressure on birds of prey such as Buzzard and Goshawk through competition for prey and breeding sites, but also as a predator ("intraguild predation"). The consequences of the Eagle Owls expansion on the behaviour and habitat choice of the Common Buzzard are not yet understood. The current project includes experiments on the territorial behaviour of Common Buzzards towards Eagle Owl and Goshawk and the acquisition of data on their breeding habitat (nest environment, forest patch size, distance to roads etc.) in our approximately 300 km<sup>2</sup> large study area near Bielefeld. The behavioural tests will be conducted using Eagle Owl and Goshawk dummies. The field work requires the usage of a private vehicle. The costs for fuel are of course reimbursed. The field season is constituted of a mapping phase (mid-March to May) followed by an experimental phase (May to max. August). Analyses will be performed subsequently. The estimated duration of the project is at least six months. We therefore offer a six-month stipend as support (750 euro /month).

Requirements We apply established ornithological methods during our yearly field season (e.g. nest searching and checks, bird-ringing), which involve a high workload in the field but are equally rewarding. A background in



ornithology is beneficial, but not required. Most importantly, we are searching for enthusiastic and autonomous students. Of course, there will be introductory training at the beginning of the field season. You will also be a part of our bird-ringing teams sampling raptor nestlings. We view the successful conclusion of your project and field season as a superb basis for a future PhD position.

Supervision The supervisors of the project are Dr. Nayden Chakarov (nayden.chakarov@uni-bielefeld.de) and Prof. Dr. Oliver Krüger. Applications should be submitted by 15.01.2024

The Raptor-research group at the Department of Animal Behaviour is searching for a new team-member with a focus on parasitology for the beginning of 2024. Our research group studies the ecology and evolution of local raptor populations and their blood parasites (Haemosporida), which represent Malaria-like protists transmitted by mosquitoes, blackflies and biting midges. Blood parasite diversity is high and accompanies the evolution of their hosts. Simultaneously, blood parasites are also drivers of evolution and should be considered at least equally representative of biodiversity as metazoan species. In the current project we aim to study the spatiotemporal occurrence of blood parasites in a raptor population that has been studied for the past decades. The focus lies on understanding the influence of environmental factors and habitat properties on the diversity and occurrence of these parasites.

The project includes sample acquisition and parasitological analysis (microscopy, molecular methods) of blood samples of Common Buzzards (*Buteo buteo*) and other raptor species. Furthermore, you will acquire data on breeding habitat properties (nest environment, distance to water bodies etc.) in our approximately 300 km<sup>2</sup> large study area near Bielefeld. The field work requires the usage of a private vehicle. The costs for fuel are of course reimbursed.

The field season is constituted of a mapping phase (mid-March to May) followed by a sampling phase (May to max. August). Analyses will be performed subsequently (the application/implementation of advanced methods is favourable). The estimated duration of the project is at least six months. We therefore offer a six-month stipend as support (750 euro /month).

Requirements We apply established ornithological methods during our yearly field season (e.g. nest searching and checks, bird-ringing), which involve a high workload in the field but are equally rewarding. A background in ornithology or parasitology is beneficial, but not required. Most importantly, we are searching for en-

thusiastic and autonomous students. Of course, there will be introductory training at the beginning of the field season. We view the successful conclusion of your project and field season as a superb basis for a future PhD position.

Supervision The supervisors of the project are Dr. Nayden Chakarov (nayden.chakarov@uni-bielefeld.de) and Prof. Dr. Oliver Krüger. Applications should be submitted by 15.01.2024

“Chakarov, Nayden” <nayden.chakarov@uni-bielefeld.de>

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## Brigham Young University Evolutionary Genomics Insects

BYU.Evol.Genomics.Insects

Graduate positions: rapid genome evolution, biodiversity genomics, insect phylogeography

Application deadline: Jan 15, 2024

The Sproul Lab at Brigham Young University is recruiting prospective PhD/MS students to begin Fall 2024. Positions for two fully funded graduate students are available. Research in the Sproul Lab centers on themes of insect biodiversity, repetitive DNA, rapid genome evolution, and the interface of the three. Training opportunities in the lab span organismal biology, collections-based research, high-elevation field biology, molecular benchwork, computational biology, and bioinformatics. Additional information on the Sproul Lab is available here: <https://biology.byu.edu/sproul-lab> Three available graduate projects include (see lab website link above for additional details):

Mechanisms of rapid genome evolution in high-elevation ground beetles. This project will investigate molecular mechanisms and evolutionary consequences of rapid genome evolution in beetles for which repeats account for wholesale turnover of 40% of genomic sequences between closely related species. Potential training opportunities include long-read (i.e., PacBio HiFi) genome sequencing and assembly, RNA sequencing, fluorescence in situ hybridization, computational biology, and bioinformatics.

Repetitive DNA dynamics across insects. This project will investigate how repetitive DNA dynamics shape

genome evolution across broad evolutionary scales and better extend repetitive DNA genomics to the biodiversity community. Potential training opportunities include repetitive DNA genomics, genome sequencing and assembly, computational biology, and bioinformatic tool development.

Species delimitation and phylogeography in montane insects. We have ongoing interest in new species discovery and phylogeography projects in high elevation ground beetles (Carabidae) as well as stoneflies (Plecoptera). This research takes us to beautiful alpine and sub-alpine habitats across western North America. Potential training opportunities in organismal biology, taxonomy, phylogenomics/population genomics, species delimitation methods, field biology.

Interested applicants should please email a current CV, a brief statement that describes your interest in the Sproul Lab, and any questions to: [john.sproul@byu.edu](mailto:john.sproul@byu.edu). Prospective applicants with interests and experience that overlaps and/or complements Sproul Lab research will be invited to meet via Zoom to further discuss their interest and potential fit in the lab. Many (but not all) projects in the lab include major computational components. Both students with prior computational/coding experience, and students strongly motivated to learn new computational skills are encouraged to reach out.

BYU's beautiful campus sits on the foothills of the Wasatch Mountains in Provo, Utah (USA). The Biology Department has broad expertise in evolution, ecology, bioinformatics, and biology education as well as excellent facilities to support graduate research. The biology graduate program comprises a vibrant community of students from all over the world working on diverse topics. PhD students in the department are guaranteed stipends via teaching or research assistant positions for each semester enrolled, and a full tuition scholarship for all semesters enrolled for up to 5 years. Master's students receive guaranteed funding support fall and winter semester for two years.

For more information about the BYU Biology graduate program: <https://gradstudies.byu.edu/departments/-biology> For general information about applying to the graduate school at BYU: <https://gradstudies.byu.edu>

John S. Sproul, PhD Assistant Professor of Biology Brigham Young University 701 E University Parkway Drive Department of Biology 4102 LSB Provo, UT 84602

Phone: (801) 422-0363

Email: [john.sproul@byu.edu](mailto:john.sproul@byu.edu)

John Sproul <[john.sproul@byu.edu](mailto:john.sproul@byu.edu)>

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## CentreAlgatech Czechia CellEvolution

PhD studentship in Evolution of hormonal metabolism in Tetrahymena

We are seeking a candidate with a background in molecular biology or genetics for a Ph.D. studentship to study the biogenesis and reception of animal-like hormones in the single-celled model *Tetrahymena thermophila*. You will aim to identify enzymes and membrane receptors involved in insulin, serotonin, melatonin and dopamine metabolism and test their endogenous and exogenous effects on *Tetrahymena* physiology and behaviour. You will become proficient in methods of cell culture and visualization, gene editing and knockout, protein purification and interactions, omics data analysis, biochemistry and immunocytochemistry. Your results will have broad implications on hormone function in microbes and the origin of the animal endocrine system. The degree will be conferred by the University of South Bohemia.

We seek candidates with: \* a Master's degree in molecular biology or related field \* independent thinking, motivation and strong communication skills. \* a record of independent contribution to research ideally publications in peer-reviewed journals. \* experience with cloning, cell transformation, nucleic acid analysis, protein analysis, biochemistry and/or *Tetrahymena* genetics is an advantage.

We offer: \* individual mentorship \* 3-month stay abroad and collaboration with European and UK universities. \* opportunities to present data at regional and/or international meetings. \* a 4-year Ph.D. stipend including health and dental insurance coverage by the employer.

Algal Evolution and Ecology group at Centre Algatech ([alga.cz](http://alga.cz)), Institute of Microbiology Trebon (Czech Republic) is led by Jan Janouskovec and Eva Horakova. We study evolution, ecology, and molecular biology of protists (PNAS 114:E171-E180; Curr Biol 27(23), eLife 8:e49662; Nat Commun 13:7075). Centre Algatech hosts several internationally recognized groups in microbiology research with a high proportion of foreign researchers, friendly atmosphere and English as a working language. We have had strong national and international funding and have outstanding facilities for molecular biology and biochemistry research.

Department of Molecular Biology and Genetics was established in 2016 at the University of South Bohemia in Ceske Budejovice. Research activities are focused on functional analysis of genes using various model organisms. Ph.D. students are trained in modern molecular genetics, including mutagenesis, transgenesis, and cell culture techniques. The department is closely associated with the Czech Academy of Sciences and offers a Ph.D. programme in Integrative Biology.

To apply: Please send a single PDF document in English containing the following information to Eva Horakova (horakova@alga.cz) by 2nd January 2024. The interviews will take place on the 11th and 12th of January and the preferred start date is July 2024. \* Motivation letter detailing your fit for the position (max.1 page) \* Curriculum vitae with a complete list of peer-reviewed publications (max.2 pages) \* Contact information for 2 academic referees (please do not include letters with the application)

janouskovec@alga.cz

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## Europe Three AvainMigration

3 PhD positions (m/f/d) Funded project (NCN, DFG, and FWF): Landfill foraging in migratory birds: pain or gain

Background: Humane pressure is threatening many organisms to the edge of extinction. However, some species may even profit from human-induced environmental changes. For example, many birds and mammals regularly forage on food waste deposited in landfills. To which extent these anthropogenic food sources can have positive or negative impacts on animals' life-history decisions and fitness outcomes remain relatively poorly investigated. Our international team aims to tackle this question by studying migratory white storks (*Ciconia ciconia*) breeding in Poland where we have recently observed a remarkable increase in the use of anthropogenic food sources. The project aims to advance our understanding of the impact of anthropogenic changes on wildlife population health and fitness and contribute to biological conservation.

We are seeking 3 PhD candidates to investigate the impact of anthropogenic food sources on various life-history traits of white storks. Using a comprehensive

approach, integrating ecological, behavioural, and physiological measurements, the projects focus on one of three scientific subjects: How does parental foraging on landfills modulate 1) survival and fitness, 2) foraging and migration behaviour of juveniles, and 3) how these relate to metabolic and physiological changes during early life. Each PhD is individually supervised by a Project Supervisor from the Hosting Institution, who will concentrate their training on an individual research project (training-by-research) within one of the three main research subjects.

Project 1 will be based at the Department of Zoology, Poznań University of Life Sciences (PULS) in Poland. It will explore the impact of landfill foraging on breeding outcome, growth, and survival. Project 2 will be based at the Max Planck Institute of Animal Behavior (MPI-AB) in Konstanz, Germany. The project will examine how foraging in landfills affects migratory decisions. Project 3 will be based at the Research Institute of Wildlife Ecology (FIWI), Department of Interdisciplinary Life Sciences at the University of Veterinary Medicine Vienna (Vetmeduni) in Vienna, Austria. The project will examine the impact of landfill foraging on the physiology and metabolic status of individuals.

Detailed descriptions of the three projects are below.

This is a highly collaborative, internationally-based work. We are looking for passionate and motivated researchers who are strongly committed to the research. Regular, mutual interactions and exchanges across the PhD candidates and partner institutions are envisioned and wanted. These will ensure that all candidates will be involved in the research activities of the other projects ensuring a highly vibrant and stimulating environment for the growth and development of young researchers. The students will have the opportunity to work at the interface of several disciplines, spanning from ecology, ecophysiology, animal behaviour and movement ecology. Thus, good organisational and communication skills are required because the candidates must communicate well across the project partners.

Deadline for submission: 22nd January 2024 Interviews with selected best candidates: 29th January - 2nd February 2024 Preferred contracts start: 1st - 15th March 2024

Are you interested? Then we are looking forward to receiving your application until 22nd January 2024 through the applicant management system of the MPI-AB. Please include the following documents:

- Curriculum Vitae (CV)
- Transcript of records (record of study) and degree certificate of bachelor (BSc) degree, Vordiplom or equiv-

alent degree

- Transcript of records (record of study) and degree certificate of Master (MSc) degree, Diplom or equivalent degree (if applicable). If your degree programme is not yet completed, please provide temporary transcripts
- Two letters of recommendation will be required, one from your previous MSc supervisors
- Letter of Motivation, specifically addressing research interests and why you would like to choose the selected project(s)/research topic

Questions about the positions will be answered by Marcin Tobólka at PULS (marcin.tobolka@up.poznan.pl) for Project 1, Andrea Flack at MPI-AB (aflack@ab.mpg.de) for Project 2, and by Valeria Marasco at Vemeduni (valeria.marasco@vetmeduni.ac.at) for Project 3.

PhD position 1 Place of residence: Department of Zoology, Poznań University of Life Sciences, Poland.

The candidate will be involved in fieldwork (field observations, bird handling and measuring, study system setting (trial cameras, iButton loggers, weather stations, UAVs, GPS-GPRS\_ACC transmitters, tissue sampling), laboratory analyses (microbiological and immunological assays), different techniques of quantitative data analysis, and leading the writing of scientific articles and dissemination of the obtained

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## GriffithU CaveSedimentAncientDNA

Deep time extinctions informed by DNA in Australian underwater caves

We are currently looking for a PhD candidate to join our research team in the examination of cave sediments in Australia using ancient and environmental DNA (aDNA) techniques. The primary focus of this role is to reconstruct whole Australian fossil ecosystems using widescale genetic investigations of sediment and water samples from the unique submerged Mt Gambier cave deposits. The underwater deposits of Mt Gambier fill a critical gap

in cave palaeontology and preserve exquisite specimens of megafauna species including the rare *Propleopus*, a giant carnivorous kangaroo, the giant short-faced kangaroos *Simosthenurus*, and the marsupial 'tapir' *Palorchestes*. There is potentially ~95,000 years of critical information locked in the Mt Gambier caves, in the form of ancient environmental DNA as well as cave sediments in conditions beneficial for the preservation of ancient DNA, that can shed light on the dramatic biodiversity loss that occurred during the Pleistocene and the factors that drove this change. Success in this role requires collaboration with interdisciplinary experts in archaeology, genetics, and palaeoecology, as well as with Indigenous communities to ensure the ethical and respectful use of cultural heritage materials.

The 2023 Griffith University Postgraduate Research Scholarship has an annual stipend of \$32,192 (indexed) for a period of up to three years of full-time study. Please see the GUPRS Conditions of Award < <https://www.griffith.edu.au/research-study/-scholarships/guprs> > for more information. A successful International applicant will also be awarded a Griffith University International Postgraduate Research Scholarship to cover tuition fees for up to three years. Please see the GUIPRS Conditions of Award < <https://www.griffith.edu.au/research-study/-scholarships/guiprs> > for more information.

The selection of applicants for the award of higher degree research scholarships at Griffith University involves consideration of your academic merit and research background. To be successful in a research project on sedaDNA and cave palaeontology, you will be able to demonstrate a strong foundation in genetics and molecular biology, as well as familiarity with ecology, archaeology/palaeontology, and biogeography. You will have evidence of a passion for biodiversity conservation and a desire to understand why and how biological communities have changed through time. You will ideally have experience in fieldwork, data collection, and analysis, as well as the ability to work independently and collaboratively with stakeholders from diverse backgrounds. Overall, a successful candidate for this research project will be highly motivated, innovative, and committed to making a positive impact on the environment.

Expressions of interest are welcome from domestic and international applicants.

\* Applicants must have completed, or expect to complete, a bachelors degree with honours equivalent to first class honours or a Masters degree (AQF Level 9) incorporating a significant research component of a standard comparable to a bachelor honours degree or be regarded by Griffith Univer-

sity as having an equivalent level of attainment in accordance with the HDR Scholarship Procedure < <https://sharepointpubstor.blob.core.windows.net/-policylibrary-prod/HDR%20Scholarship%20Procedure.pdf> >. For further information on the eligibility requirements for the program refer here < <https://www.griffith.edu.au/research-study/degrees> >.

International applicants should ensure that English Language Proficiency requirements for the program are met before formally applying. Applicants to research programs will need to show they meet:

\* A minimum overall band score of 6.5 on the IELTS (Academic) with no band score less than 6.0 OR

\* A minimum score of 575 on the paper-based TOEFL including a score of no less than 5.0 on the TWE OR

\* A score of 79 on the internet-based (iBT) TOEFL with no sub-score less than 19

Please do not select the “APPLY” button. All expressions of interest must be submitted to [m.debruyne@griffith.edu.au](mailto:m.debruyne@griffith.edu.au) and [j.louys@griffith.edu.au](mailto:j.louys@griffith.edu.au) containing:

\* Statement addressing your suitability for the project/scholarship

\* Evidence that you have completed a program with the required grades as detailed in the about you section

\* A curriculum vitae (CV) using the Griffith CV template

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## ImperialC London MicrobeEvolutionaryMetabolomics

Exploring the boom and bust of metabolic functional gains and decay in evolving holobionts

Fully funded 4 year PhD from the Leverhulme center for the holobiont.

Based in the Graystock lab at the Silwood Park campus of Imperial College London, UK, the project will seek to understand evolutionary dynamics of traits in fluctuating environments. To explore this question, the

student will evolve various bee-associated microbial communities to fluctuating stressors using state-of-the-art automated bioreactors and within bees - their usual host/holobiont environments. Frequently collected samples throughout the directed evolution experiments will have their metabolomes analysed to reveal metabolic trait evolution during times of high and low population stress. This is an exciting opportunity not only to evolve organisms using directed evolution assays but, crucially, to also identify and quantify the changing metabolic dynamics over time.

Application deadline: 15th January 2024 For specific project details, eligibility, and application information please see: <https://www.findaphd.com/phds/project/-exploring-the-boom-and-bust-of-metabolic-functional-gains-and-decay-in-evolving-holobionts/?p166551> “Graystock, Peter” <[p.graystock@imperial.ac.uk](mailto:p.graystock@imperial.ac.uk)>

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## ImperialC London Three InsectEvolution

Three PhD projects are being advertised to join the Gill group to conduct research on aspects of insect ecology and evolution.

An overarching aim for all three projects is to understand how insect pollinator populations are being shaped by high rates of climate and land use change, along with their plant partners and microbial symbionts. Gill group webpage: <https://www.imperial.ac.uk/people/r.gill> Project 1: Climate impacts on Arctic plant-pollinator networks: a population trait-based framework. Deadline 8th January (12:00 BST). A NERC SSCP funded project. For specific project details, eligibility, and application information please see: [https://www.imperial.ac.uk/media/imperial-college/grantham-institute/public/-dtp/2024-projects/grantham-institute-2024-projects/-2024.43\\_DoLS\\_RG.pdf](https://www.imperial.ac.uk/media/imperial-college/grantham-institute/public/-dtp/2024-projects/grantham-institute-2024-projects/-2024.43_DoLS_RG.pdf) .Note: Need to be classed as a UK home student.

Project 2: Fungal disease risks under landscape homogenisation: tracking fungal transmission across plant-pollinator networks using contemporary and historic museum specimens.

Deadline 15th January. A Leverhulme Centre for the Holobiont funded project. For specific project

details, eligibility, and application information please see: <https://www.findaphd.com/phds/project/-fungal-disease-risks-under-landscape-homogenisation-tracking-fungal-transmission-across-plant-pollinator-networks-using-contemporary-and-historic-museum-specimens/?p166370> Note: Need to be classed as a UK home student.

Project 3: Leveraging entomological museum collections to understand trait responses to environmental change over the past century. Rolling deadline but encourage early interest. A chosen candidate for the project would apply with the support of PI Gill to the following scheme: <https://www.imperial.ac.uk/study/fees-and-funding/postgraduate-doctoral/grants-scholarships/-presidents-phd/>. If interested, please send an email to Richard Gill ([r.gill@imperial.ac.uk](mailto:r.gill@imperial.ac.uk)) explaining your interest in the topic and an attached CV. If deemed suitable, PI Gill will contact you back to discuss further.

Note: Available to international students

The positions are competitively funded, will be based at the Silwood Park campus of Imperial College London, and if successful will start in October 2024.

Kind Regards,

Dr Richard Gill Dept. Life Sciences

Silwood Park Campus Imperial College London, UK

“Gill, Richard J” <[r.gill@imperial.ac.uk](mailto:r.gill@imperial.ac.uk)>

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## IowaStateU MitochondrialBioenergetics

The Weaver lab at Iowa State University is seeking PhD and Master’s students to develop projects centered around mitochondrial bioenergetics with a start date of Fall 2024.

While students in my lab have the flexibility to pursue their specific research interests, projects should include some aspect of mitochondrial physiology and/or mitochondrial evolution. Tools in the lab allow for measurements of mitochondrial bioenergetics; from whole-organisms to isolated mitochondria, in addition to access to high-performance computing clusters, a genome informatics facility, and other state-of-the-art scientific equipment.

There are currently two main branches our work: 1) The evolutionary partnership between mitochondrial- and nuclear- encoded products that is required for eukaryotic life and 2) Studying the taxonomic origins, distribution, and function of the mitochondrial alternative oxidase (AOX). Please visit [www.ryanjweaver.com](http://www.ryanjweaver.com) to learn more.

I will be most excited to hear from students with interests at the interface of pathogens, conservation, and physiology or interests in mitonuclear coevolution and ecology.

Graduate students are financially supported by teaching assistantships with the possibility of some semesters being funded by research assistantships. Regardless of the source, students receive a stipend, health benefits, and tuition waivers. Competitive fellowships offered by the Ecology and Evolutionary Biology Graduate program are also available.

Please email me your current CV, a brief cover letter highlighting your relevant research experience and interests, including why you are interested in working in our lab, and how attending graduate school aligns with your long-term goals.

The priority deadline for applying to the EEB graduate program is December, 15th, but interested applicants should contact me to chat first before applying. <https://www.grad-college.iastate.edu/academics/-programs/apresults.php?id8> Ryan Weaver, PhD Department of Ecology, Evolution, and Organismal Biology Iowa State University [rjweaver@iastate.edu](mailto:rjweaver@iastate.edu)

“Weaver, Ryan [EEOB]” <[rjweaver@iastate.edu](mailto:rjweaver@iastate.edu)>

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## NorthDakotaStateU TroutComparativeGenomics

The Genomics, Ecology, and Modeling for Conservation Lab at North Dakota State University, led by Travis Seaborn, is recruiting for one position to join our team working our recently funded Bipartisan Infrastructure Law Ecosystem Restoration Research Project. This project spans collaborators across North Dakota State University, Idaho State University, and multiple U.S. Forest Service Stations. The primary goals of this position include (1) Identify how landscape features, geo-

graphic distance, restoration activities and environmental stressors promote or limit gene flow among the four salmonid species in the basins. (2) Incorporate ecological, genetic, and social results in an integrative model to make predictions and identify preventative measures for future invasions in the river basins. To express interest and/or apply, please email [travis.seaborn@ndsu.edu](mailto:travis.seaborn@ndsu.edu). To formally apply, please include a short letter of interest, which should include an explanation of fit and past relevant experience, and CV by Dec 8th. Anticipated start date: Summer 2024. Stipend ~\$25,000.

“Seaborn, Travis” <[travis.seaborn@ndsu.edu](mailto:travis.seaborn@ndsu.edu)>

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## NorthernMichiganU FishEvolGenomics

The Mandeville Lab at Northern Michigan University is recruiting a MS student to work on the evolutionary genomics of freshwater fish (start date fall 2024).

Research in our lab group focuses on understanding how evolutionary processes shape freshwater biodiversity, and what these patterns mean for the conservation of native fish. Specific focus areas include hybridization, effects of anthropogenic disturbance, population connectivity, and the evolution of fish sex determination mechanisms. Depending on the interests of the successful candidate, there are several different projects on Northern Michigan freshwater fish that may be available. On-going and planned projects include work on evolution of hybrid unisexual dace lineages, leuciscid minnow hybridization or demography in response to anthropogenic change, and genetic diversity or population connectivity of lake whitefish.

Applicants with strong interests in evolution, fish biology, ecology, genetics, conservation, or related fields are encouraged to apply. Desired qualifications include the ability to balance working independently and collaboratively, excellent work habits, and strong writing skills. Projects will involve working with high resolution genomic data that requires computational approaches and high performance computing. No prior computational experience is required, but applicants must be willing to learn and excited about building their computational skills. The Mandeville Lab aims to promote equity, diversity, and inclusion in the sciences, and encourages applications from students who are members

of historically excluded or marginalized groups.

To apply informally, please send a letter of interest, CV, transcript (unofficial is fine), and contact information for three references to Dr. Liz Mandeville, [lmandevi@nmu.edu](mailto:lmandevi@nmu.edu). Review of applications will begin immediately and continue until a suitable candidate is identified (official admissions procedures to follow). All applications received by January 5, 2024 will receive full consideration.

Elizabeth G. Mandeville Assistant Professor Biology Department Northern Michigan University 1401 Presque Isle Ave Marquette MI 49855 [lmandevi@nmu.edu](mailto:lmandevi@nmu.edu)

“Golding, Brian” <[golding@mcmaster.ca](mailto:golding@mcmaster.ca)>

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## NTNU Norway ArcticAlienPlantGenomics

PhD position in genomics of Arctic alien plants at NTNU University Museum, Trondheim, Norway. Start date spring 2024, fully funded for 4 years.

Deadline: 21st January 2024

Supervisory team: Associate Professor Kristine Bakke Westergaard (main) Professor Mike Martin (co) Dr. Simone Fior, ETH Zürich, Switzerland (co)

Please find all details and link to apply here: <https://www.jobbnorge.no/ledige-stillinger/stilling/255087>

About the project: We are seeking a highly qualified, ambitious, and motivated PhD candidate for a project focusing on genomics of Arctic alien plants. The project will focus on target alien plant species and seek to uncover their genomic basis of adaptation to the Arctic environment and how it relates to their invasiveness.

A warming climate, changes in soil properties, and rising human activity in the Arctic increase the probability of introduction and establishment of alien plant species. In high-Arctic Svalbard and other Arctic regions, the wintercress (*Barbarea vulgaris*) is an established and naturalised alien species. Hypotheses for its success include multiple introductions from different genetic sources, enemy release advantage related to plant defense compounds, and shifts in adaptive traits. The PhD project will develop genomic datasets, making use of field collections and herbarium resources, and develop experimental evidence to examine links between the

genomic basis of successful establishment and potential invasiveness in the high-Arctic. The wintercress will be a primary focus of the project, but complementary research on parallel systems may be developed. The project will add an important evolutionary component to ongoing interdisciplinary research on Arctic greening.

The work of the PhD candidate will consist of arctic field work, herbarium work, green house experimental work, DNA lab and bioinformatics in an international interdisciplinary team. More specifically, the successful candidate will:

Assemble a spatial and temporal sampling of herbarium and fresh specimens Produce NGS libraries and sequencing data using clean-lab facilities and third-party services Manage and supervise third-party services to achieve high-quality reference genomes suitable for population genomic analyses Analyse sequencing data combined with available genomic resources and complementary experimental evidence to unravel the evolutionary history of parallel Arctic invasions, including the phylogeography of established populations, the genetic architecture of adaptation to the Arctic environment, and the role of different chemotypes in the context of the enemy release hypothesis Analyse temporal data to assess turnover of allele frequencies following introduction and bottlenecks Design and perform common garden experiments to test the adaptive role of shifts in enemy pressure, breeding system and life-history traits underlying invasiveness under current and future climate Disseminate results in scientific literature, to relevant stakeholders and the public

The candidate will use the NTNU University Museum's herbarium, genomics laboratory facilities and computational resources, and the work will be closely associated with a project on Arctic greening (<https://geobiology.ethz.ch/research/arctic-greening.html>) based at ETH Zürich. The work will also be part of the newly established Nordic Borealization Network that seeks to understand the processes, drivers, and consequences of changes in the species composition of tundra ecosystems.

As a PhD candidate you are normally paid from gross NOK 532 200 per annum before tax, depending on qualifications and seniority. From the salary, 2% is deducted as a contribution to the Norwegian Public Service Pension Fund. The position is available from spring 2024, thus master students graduating before this date can apply. The period of employment is four years, with 25% of the time allocated to collection work, teaching and public outreach.

Please feel free to reach out with any enquires - kristine.b.westergaard@ntnu.no.

Kristine Bakke Westergaard  
<kristine.b.westergaard@ntnu.no>

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## TexasAMU CorpusChristi MolecEcolEvolCons

Graduate Student Positions in Molecular Ecology at Texas A&M University - Corpus Christi (The Island University)

The Bird Lab of Molecular Ecology, Evolution, and Conservation is accepting applications from prospective M.S. and Ph.D. students. Example graduate project topics:

- \* Evolution of Philippines fishes (###) \* eDNA & Biodiversity in the Streams of the Mariana Islands (##)
- \* Adaptations to Harvesting and Climate Change in Hawaiian Limpets (##, ###) \* Effects of Community Based Management on Hawaiian Limpet Populations (#, ##) \* Reinforcement and Speciation in Hawaiian Limpets (###)

Key: Amount of computation, scripting, bioinformatics, and modeling involved in a grad project '### - very high '## - high '# - typical for biology

Research in the lab is primarily focused on the effects of humans on aquatic resources and secondarily on the application of DNA/genomic technologies to conservation.

If you are interested, send me an email (cbird@tamucc.edu) with the following information:

- \* CV \* Transcript \* Questions

To learn more about graduate school at TAMU-CC, please refer to our graduate recruiting page: <https://www.tamucc.edu/science/graduate-recruiting.php> . I can mentor students in the following graduate programs:

- \* Marine Biology MS, PhD (deadlines & reqs: <https://www.tamucc.edu/programs/graduate-programs/-marine-biology-ms-phd.php>)
- \* Coastal and Marine System Science, MS, PhD (deadlines & reqs: <https://www.tamucc.edu/programs/graduate-programs/-coastal-and-marine-system-science-ms-phd.php>)
- \* Biology MS (deadlines & reqs: <https://www.tamucc.edu/programs/graduate-programs/biology-ms.php>)
- \* Fisheries & Mariculture MS (deadlines & reqs: <https://www.tamucc.edu/programs/graduate-programs/-fisheries-mariculture-ms.php>)



Christopher E. Bird Associate Professor, Life Sciences Director, Genomics Core Laboratory Texas A&M University - Corpus Christi

“Bird, Chris” <Chris.Bird@tamucc.edu>

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## Toulouse Pyrenean Plant Conservation Genomics

Ph.D. Position: Conservation Genomics and Evolution of Endangered Pyrenean Plants Amidst Climate Change Challenges

Application Deadline: Wednesday, January 31, 2024  
Contact: jerome.murienne@cnrs.fr

General Information

Job Title: Ph.D. in Ecology on Threatened Plants of the Pyrenees (M/F)

Reference: UMR5300-CRBE-001

Number of Positions: 1

Location: Toulouse

Publication Date: January 1, 2024

Type of Contract: Fixed-term doctoral contract

Contract Duration: 36 months

Ph.D. Start Date: March 1, 2024

Workload: Full-time

Remuneration: Monthly gross flat rate of 2135 euros

Thesis Subject Description

The proposed thesis topic is part of the interregional European program FLORAPYR3D (INTERREG France, Spain, Andorra), coordinated by the National Botanical Conservatory of the Pyrenees and Midi-Pyrenees. FLORAPYR3D aims to enhance knowledge about the flora and habitats of the Pyrenees and support conservation and management actions by assisting public authorities and managers. The thesis will be supervised by Jérôme Murienne (Biodiversity and Environment Research Center) and Joris Bertrand (University of Perpignan Via Domitia) and will benefit from a supervisory team composed of Jordi Salmons, Romain Bertrand, Gabrielle Martin, and Nathalie Escaravage. The candidate will conduct population genomics studies on certain threatened plant species to document conservation chal-

lenges within the Pyrenees. The candidate will use modeling tools to predict the impact of global changes on the distribution of the considered species.

Work Context

The candidate will be hosted at the Biodiversity and Environment Research Center (CRBE) located in Toulouse on the campus of the University of Toulouse 3 Paul Sabatier. The candidate will be affiliated with the SEVAB doctoral school at the University of Toulouse.

Constraints and Risks

The candidate may potentially conduct field sampling in a mountainous context and must have good physical fitness for missions in challenging terrain. Additionally, the candidate should possess solid knowledge in population genomics and modeling, as well as proficiency in statistical analysis tools and the R language. Knowledge of BASH scripting, experience in bioinformatics, and familiarity with the plant biological model will be advantageous for the application.

Jordi SALMONA - IRD - EDB

Laboratoire Evolution & Diversité Biologique - UMR5174 IUCN SSC Primate Specialist Group - Madagascar jordi.salmons@ird.fr / jordi.salmons@univ-tlse3.fr Office in France +33 (0)561 55 67 58

Jordi Salmons - IRD - EDB <jordi.salmons@ird.fr>

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## UBayreuth Evolution Ants and Symbionts

Within the Faculty of Biology, Chemistry & Earth Sciences at the University of Bayreuth, the research group Population Ecology, Prof. Dr. Heike Feldhaar, is currently seeking to appoint a

Research assistant (PhD candidate) (f/m/d)

within the biodiversa+ joint project: MonitAnt - Developing a European-level Monitoring strategy for mound-building Formica ants and symbiont communities residing in nest mounds.

Within this joint project comprising partners from seven European countries, the successful candidate will help in

1. comparing existing monitoring strategies for mound-

building *Formica* wood ants (MBF) on the European level and use expert knowledge to develop and validate a harmonized monitoring strategy for policymakers and a recommendation for citizen science projects to facilitate monitoring of distribution and population trends of MBF,

2. characterization of the diversity of myrmecophiles within nests along climatic, altitudinal, and fragmentation gradients to assess the importance of MBF as umbrella species using metabarcoding,

3. monitoring of genetic diversity of MBF along climatic and forest fragmentation gradients and establish thresholds for reproduction of MBF in managed forests to identify requirements for stable populations

We offer a fixed-term 3-year position, starting preferably on March 1st, 2024 (April 1st, 2024 is the latest possible starting date). The position comprises salary and benefits commensurate with a public service position at the University of Bayreuth, Germany (TV-L E13, 65%). The position provides the possibility to conduct a PhD.

Candidates interested in this position should have a M.Sc. in Biology/Ecology or related areas. Ideally, the candidate has experience with field work. Skills in statistical data analysis (preferably with R) are expected. A focus on entomology and especially experience in the determination of arthropods (including experience with metabarcoding) would be a special benefit. We expect the candidate to have good communication skills and the ability to work in an international team, with research groups from several European countries. The successful candidate is expected to conduct field work in Germany and in other European countries and work together with foresters and citizen scientists in Germany. Therefore, a driving licence and the ability to communicate in German and English are a prerequisite.

The University of Bayreuth views the diversity of its staff as an asset and is expressly committed to the goal of gender equality. Women and any persons who can help make the research and teaching profile of the university more diverse are strongly encouraged to apply. Applicants with children are very welcome. All qualifications being equal, applicants with disabilities will be given priority.

Please send your application documents (consisting of a cover letter, a short summary of research interests and experience, CV, list of publications, certificates and contacts of two potential referees) as a single pdf-file to Prof. Dr. Heike Feldhaar (feldhaar@uni-bayreuth.de).

Application deadline is January 31st, 2024. The documents will be deleted after the position has been filled in accordance with data protection requirements.

Prof. Dr. Heike Feldhaar Tierökologie I / Animal Ecology I Bayreuth Center of Ecology and Environmental Research (BayCEER) Universität Bayreuth 95440 Bayreuth Deutschland / Germany

phone: +49 921 552645 feldhaar@uni-bayreuth.de

Heike Feldhaar <heike.feldhaar@uni-bayreuth.de>

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## UFRGS Brazil StinglessBeeMicrobiome

4-year PhD position funded by CAPES/CNPq through the Post Graduation Program of Genetics and Molecular Biology at the Federal University of Rio Grande do Sul (PPGBM/UFRGS, Porto Alegre, Brazil), supervised by Dr Karen L Haag.

The project will investigate the evolution of stingless bees' gut microbiomes based on bacterial 16S and genome sequencing.

The selection for this position is part of a larger call open to applications from students worldwide.

The research is part of a collaborative project that aims to unravel the diversity of bee gut microbiomes, and is coordinated by Dr Philipp Engel at the University of Lausanne (Switzerland).

Contact for information: karen.haag@ufrgs.br

Details: The PPGBM/UFRGS call can be found at <https://www.ufrgs.br/ppgbm/abertos/> Application Deadline: The deadline for applications is 15th of January, 2024.

Karen Haag <karen.haag@ufrgs.br>

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## UGlasgow ParasiteEvolution

Graduate Position: University of Glasgow, UK Parasite Evolution

<https://www.gla.ac.uk/postgraduate/-doctoraltraining/northwestbio/projects/pathogens/ashape>  
 shifting silent assassin how does genome instability underpin trypanosoma cruzi drug resistance and survival in vector and host?

Chagas disease is the most important parasitic in Latin America, killing 12,000 people every year. Genome sequencing of agent, parasite *Trypanosoma cruzi*, reveals a genome in a constant state of re-arrangement. The adaptive value of such genomic re-arrangements and evolutionary consequences of this shape-shifting may hold the key to understanding, and addressing, many intractable aspects of *T. cruzi* biology.

In this PhD program the student will leverage advances in genomics, genetic manipulation, animal disease models to understand how *T. cruzi* genomic re-arrangements may underpin long term survival and evolution in the mammalian host as well as parasite resistance to frontline and next generation drugs. An expert and experienced supervisory team is in place to support the PhD, with opportunities for research and training in Ecuador, Uruguay and Belgium.

APPLICATION DEADLINE: Friday 9th February 2024

Supervisors: Martin Llewellyn Jamie Costales Richard McCulloch Panas Kotsantis Mick Urbanick

Martin.llewellyn@glasgow.ac.uk

Martin Llewellyn <Martin.Llewellyn@glasgow.ac.uk>

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## UGothenburg EvolutionaryBiology

Doctoral student in biology specializing in evolutionary biology

Ref PAR 2023/1412

Application deadline: 21 January 2024 Apply here:

[https://web103.reachmee.com/ext/I005/1035/job?site=7&lang=UK&validator9b89bead79bb7258ad55c8d75228e5b7&job\\_id2659&fbclidIwAR1YqoJvKNwI4kNvcjv5k1VLonrnPeiWqOP2QC](https://web103.reachmee.com/ext/I005/1035/job?site=7&lang=UK&validator9b89bead79bb7258ad55c8d75228e5b7&job_id2659&fbclidIwAR1YqoJvKNwI4kNvcjv5k1VLonrnPeiWqOP2QC)

The University of Gothenburg tackles society's challenges with diverse knowledge. 56 000 students and 6 600 employees make the university a large and inspiring place to work and study. Strong research and attractive study programmes attract researchers and students from around the world. With new knowledge and new perspectives, the University contributes to a better future.

Doctoral position in biology specializing in evolutionary biology

At the Department of Biological and Environmental Sciences (BioEnv) we have teaching and research activities that stretch from the alpine ecosystem, through forests, cultivated land and streams, all the way into the marine environment. In these environments we study different levels of biological organisation from genes, individuals, and populations, to communities and ecosystems. We work within ecology, evolution, physiology, systematics, and combinations of these fields to understand the impact of natural and anthropogenic changes of the environment.

The department is placed at two different localities: in Natrium at Medicinargatan 7B in Gothenburg and at the Kristineberg marine research station operated by the Marine Infrastructure at the University of Gothenburg. The current employment is based at Natrium.

General information about being a doctoral student at the University of Gothenburg can be found on the university's doctoral student pages. <https://medarbetarportalen.gu.se/doktorand/?languageId=-100001&skipSSOCheck=true> We offer

The University of Gothenburg is a state authority, which means special benefits, more holidays and a great pension. You can read more about our employment benefits here.

Project description

Chromosomal inversions can shield adaptive combinations of alleles from recombination, facilitating evolutionary processes such as adaptation, sex chromosome evolution and speciation. However, inversions are not just passive vessels, inversions themselves evolve as they contain large swaths of the genome and may encompass many hundreds of genes. Critically, their large size (compared to smaller changes such as point mutations) means that their allelic content as well as their frequency evolves over time, something which is currently not well

incorporated in evolutionary theory. In this project, which is funded by the Swedish Research Council VR, we use seaweed flies (*Coelopa* spp.) as a model system to understand the role of chromosomal inversions in adaptation to environmental change. These flies live on all coastlines of the northern hemisphere, from the arctic to temperate regions, where they inhabit decomposing kelp beds on the seashores. There are known chromosomal inversions in the flies which affect the phenotype in different ways, that show geographic structure along latitudinal clines. This observation leads to many questions, for example: Do the inversions confer different fitness depending on temperature? Do we see the same pattern across continents, or are there different adaptive pathways present on the different coasts? Is the genetic architecture shared across continents (including genetic variants, rearrangements, gene expression, and chromatin conformation)?

#### Duties

The main task is to conduct the PhD thesis work under supervision, which includes development of the PhD student's methodological experience, analytical skills, as well as theoretical depth and breadth. The student is expected to use a variety of approaches, such as field- and laboratory-experiments, bioinformatic analyses, statistical and analytical modelling, and interpretation of results. This project has a strong collaborative component, with project partners in the United States and France, allowing for extended stays also outside of Sweden as part of the PhD.

The successful candidate will develop a PhD-project anchored in the field of evolutionary genomics which aimed at a better understanding of the geographic distribution of chromosomal inversions in seaweed flies. Different aspects may be investigated ranging from phenotypic traits to genomic features associated with inversions that will be chosen and developed together with the supervisors and in dialogue with collaborators internally and externally at the department.

Previous work in the research group has resulted in several large datasets on the spatial distribution of chromosomal rearrangements in seaweed flies. These are all available to the successful candidate and

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## UHohenheim Four Plant Evolution

PhD Position in Plant Ecology Department of Landscape Ecology and Vegetation Science, University of Hohenheim Stuttgart, Germany

Application Deadline: January 19, 2024

Position: The Department of Landscape Ecology and Vegetation Science at the University of Hohenheim in Stuttgart, Germany, seeks a PhD student in plant ecology (m/f/d). Preferred starting date is April 1st, 2024, for a duration of three years.

Job Description: The PhD position will investigate fitness consequences of trait-mediated interactions between the invasive plant *Impatiens glandulifera*, native plants and their pollinators (from the plant perspective). The project is led by PD Dr. Christine S. Sheppard (the plant perspective) and Prof. Dr. Ingo Grass (the pollinator perspective). It forms part of a group of four projects investigating fitness landscapes of biotic interactions in various systems from both a theoretical and empirical perspective (see <https://ecology.uni-hohenheim.de/flint> for more information) and students will benefit from the diverse expertise of >10 PIs. Our project investigates plant-pollinator interactions focusing on *Impatiens glandulifera*, which is one of Europe's most severe plant invaders. Because it attracts many pollinators with its rich nectar, this species can also indirectly affect native plants by either reducing pollinator visits and fitness of co-occurring native plants (causing pollinator-mediated competition) or benefiting native plants due to pollinator spill-over (causing pollinator-mediated facilitation). To study the fitness consequences of interactions with pollinators for *I. glandulifera* and native plant species, the project will employ a functional trait approach, aiming to explain interactions based on the floral traits of plants and relevant size traits of the pollinators in various experimental settings and landscape contexts. Main tasks:

- Conducting a mesocosm, a greenhouse and a large field experiment (in field sites around Baden-Württemberg, Germany) to obtain measurements of floral traits and seed set of plants in treatments/sites with and without *I. glandulifera* (in close collaboration with another PhD student focusing on the pollinator perspective in this system)
- Analysing the collected data and publishing the findings in high-quality peer-reviewed journals
- Actively participating in meetings, research seminars

and workshops of the project and the working group on fitness landscapes of biotic interactions

Qualifications: - Very good MSc (or equivalent) degree in ecology or a related discipline - Experience in experimental plant ecology (field or greenhouse) and/or plant-insect interactions - Statistical skills (preferably using R) - Oral and written communication skills in English (knowledge of German is not mandatory) - Driver's license (for field work)

Salary and Benefits: Salary and benefits are according to public service positions in Germany (TV-L E13; 65%; see <https://oeffentlicher-dienst.info/tv-l/allg/>). Availability of this position is subject to a positive funding decision by the German Research Foundation (DFG, decision expected in early 2024).

Working environment: The University of Hohenheim is located on a beautiful campus situated in the Southern German city of Stuttgart, which offers a rich cultural life and attractive surroundings (Swabian Alb, Black Forest). The Department of Landscape Ecology and Vegetation Science (chaired by Prof. Dr. Frank Schurr) investigates how biodiversity dynamics at different spatial and temporal scales arise from ecological and evolutionary processes. Using a broad methodological spectrum, we aim to better understand and forecast biodiversity dynamics under global change (see <https://ecology.uni-hohenheim.de/en>).

Application Procedure: Applications should include: 1) a motivation letter, 2) a CV, 3) degree certificates, and 4) the names and contact information of two potential referees in a single PDF document (deadline: January 19, 2024).

The University of Hohenheim seeks to increase the proportion of women in research and teaching and strongly encourages qualified female scientists to apply. With equal qualifications, preference will be given to candidates with disabilities. For further information and to submit applications, please contact PD Dr. Christine S. Sheppard ([christine.sheppard@uni-hohenheim.de](mailto:christine.sheppard@uni-hohenheim.de)).

PD Dr. Christine Sabine Sheppard Institute of Landscape and Plant Ecology University of Hohenheim Stuttgart, Germany

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PhD Position in Evolutionary Ecology Department of Applied Entomology, University of Hohenheim Stuttgart, Germany

Application Deadline: January 19, 2024



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## ULeeds Conservation Genomics

PhD project in the School of Biology, University of Leeds, UK

Project Title: How can population genomics help in the conservation of the endangered white-clawed crayfish (*Austropotamobius pallipes*)?

Closing date for applications: 5th January 2024

Start date: 1st October 2024

Supervisors: Prof Alison Dunn and Dr Simon Goodman

Funding: Natural Environmental Research Council, PANORAMA Doctoral Training Programme

Award type: Academic fees, stipend, contribution to research costs. Award is made on competitive basis, with funding allocated to the strongest applicants across multiple competing projects

Eligibility: UK and International Students (though places eligible to be awarded to international students are limited)

The white-clawed crayfish (*Austropotamobius pallipes*) is the only native crayfish species in the UK and is experiencing critical population declines throughout its range. Population decline and local extinctions result from habitat loss and competition with the invasive signal crayfish (*Pacifastacus leniusculus*), which also carries the oomycete pathogen 'crayfish plague' (*Aphanomyces astaci*). Signal crayfish experience little, if any impact from crayfish plague. But they spread plague to white-clawed crayfish which are highly susceptible, suffering 100% mortality. As a result, white-clawed crayfish are now considered globally endangered under the IUCN Red List (IUCN 2022) (1).

The current conservation intervention for UK white-clawed crayfish is to collect surviving individuals to establish 'ark populations' in isolated waterbodies. However, this risks potential founder effects that could reduce genetic variation, increasing the risk of inbreeding and loss of capacity for adaptation to future environmental challenges such as disease and climate change.

This PhD will use population genomic approaches to understand the population history of UK white clawed

crayfish populations, their potential vulnerability to inbreeding impacts arising from demographic declines and establishment of ark populations, and to guide conservation policy for remaining populations.

For more information and to make an application see:

<https://panorama-dtp.ac.uk/research/how-can-population-genomics-help-in-the-conservation-of-the-endangered-white-clawed-crayfish-austropotamobius-pallipes/> Or contact Alison Dunn (a.dunn@leeds.ac.uk) and Simon Goodman (s.j.goodman@leeds.ac.uk).

Dr Simon Goodman School of Biology Manton Building University of Leeds Woodhouse Lane Leeds, LS2 9JT, UK

Tel: +44-(0)113-3432561, Fax: +44-(0)113-3432835  
Email: s.j.goodman@leeds.ac.uk Web: <http://www.goodmanlab.org/> Twitter: @DrSimon\_Goodman

Sustainable Ecosystems and Adaptation Research Pillar Lead Ecology & Evolution Research Group Lead, School of Biology Director of PGR Studies, School of Biology

Simon Goodman <S.J.Goodman@leeds.ac.uk>

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## ULeicester EvolutionaryEpigenetics

PhD position at the University of Leicester, UK. Start date negotiable, ideally around October 2024, fully-funded for 3.5 years.

Title: Non-genetic mechanisms as predictors of environmentally-induced transgenerational disease.

Deadline: 15th January 2024

Supervisory team: Dr Hollie Marshall (primary) Prof Julie Morrissey (secondary) Dr Fabian Freund Dr Leah Cuthbertson

Details can be found here: <https://le.ac.uk/study/-research-degrees/funded-opportunities/cls-eileen-cowan> Summary: We are beginning to understand how everyday environmental exposure to things like pollution can cause disease. Of particular concern are emerging pollutants, such as microplastics, with one recent study finding that microplastics present in the blood of 80% of people tested. Whilst we are starting to understand the adverse health outcomes linked to pollution in individuals, the transgenerational consequences of pollution exposure remain largely unknown. This

project will begin to address this issue by exploring non-genetic mechanisms as potential biomarkers for environmentally-induced transgenerational adverse health outcomes.

Non-genetic mechanisms, such as the epigenome and microbiome can be altered by environmental exposure and can be inherited across generations. Both systems are largely linked to the underlying genetics of an individual, however it has recently been shown that environmentally-induced DNA methylation (a type of epigenetic mechanism) and an environmentally-altered microbiome can be passed on to future generations. This project will attempt to ask if environmentally-induced changes in the epigenome/microbiome of an individual can be used to predict the health of future generations.

Traditional mammalian model organisms are not well suited for this type of question, due to their long generation time and need for ethical consideration. Additionally, the typical non-mammalian model, *Drosophila*, does not possess a functional DNA methylation system and so cannot act as a proxy for human epigenetic profiles. This research will, therefore, cross disciplines to capitalise on an ecotoxicological model, the water flea, *Daphnia magna*, which overcomes all the above issues.

This is a multi-disciplinary project in which you will learn the following skills and techniques: experimental lab work, ecotoxicology, generation of genetic sequencing data (DNA methylation and metagenomics), bioinformatic analysis and machine learning.

Research facilities and culture: In addition to having access to all state-of-the-art facilities for the core scientific work, the student will also benefit from exceptional career and personal development. UoL is a strong supporter and signatory to the “Concordat to Support the Career Development of Researchers”, as such they will have; priority for internal grant schemes, access to outreach and public engagement activities and access to the UoL Doctoral College which provides numerous training courses and runs the Fellowship Academy. They will also be a member of the newly developed Centre for Environmental Health and Sustainability, providing a wealth of interactions from disciplines across the University. Within the department, they will be part of a larger group working on “invertebrates as molecular models”, consisting of 10 group leaders. We host weekly seminars for student and staff development and also hold an annual retreat to discuss research culture, collaboration and careers.

Applicants from all backgrounds are welcome, particularly those underrepresented in science. If you’re interested in this project, you should apply!

Please feel free to reach out with any informal enquires, no question is too small - [hjm32@leicester.ac.uk](mailto:hjm32@leicester.ac.uk).

“Marshall, Hollie J. (Dr.)” <[hjm32@leicester.ac.uk](mailto:hjm32@leicester.ac.uk)>

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## ULiverpool EvolInvertPredators

Fully funded 4 year PhD funded by Biotechnology and Biological Sciences Research Council (BBSRC) at the University of Liverpool and Newcastle, UK.

The project will investigate the evolution of target site insensitivity and behavioural mechanisms in invertebrate predators that consume cardiotoxic steroids.

**Project Overview:** The project is scheduled to commence in October 2024 and is open to applications from students worldwide. The research aims to unravel the physiological adaptations of invertebrate predators to plant-derived cardiotoxic steroids. Detailed information is provided on the advert website: <https://www.findaphd.com/phds/project/bbsrc-nld-doctoral-training-partnership-physiological-adaptations-to-plant-derived-cardiotoxic-steroids/?p165102> **Funding Details:** Successful candidates will receive a tax-free stipend of  $\frac{1}{2}$ 18,622 per annum ( $\frac{1}{2}$ 1550 per month net) for four years. Additionally, a Research Support and Training Grant (RTSG) will be provided to cover expenses related to lab consumables, travel to partners, conferences, and similar activities.

**Application Deadline:** The deadline for applications is 12 noon (GMT) on Monday, 15th January 2024.

“Rowland, Hannah” <[hrowland@liverpool.ac.uk](mailto:hrowland@liverpool.ac.uk)>

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## UMainz EvolPlantHerbivoreInteractions

PhD Position (50% E13 TV-L) University of Mainz, Institute of Organismic and Molecular Evolution Supervisor: Prof Dr Meret Huber ([https://plant-evolutionary-](https://plant-evolutionary-ecology.uni-mainz.de/)

[ecology.uni-mainz.de/](https://plant-evolutionary-ecology.uni-mainz.de/)) Starting date: May 2024 or to be agreed upon

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 genetic and 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 genetic engineering, 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 and international 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](mailto:meret.huber@uni-mainz.de) until 31.01.2024. The successful candidate may start May 2024 or to be agreed upon.

For further information, please contact: Prof. Dr. Meret Huber Institute of Organismic 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](mailto:meret.huber@uni-mainz.de)

“Huber, Prof. Meret” <[mehuber@uni-mainz.de](mailto:mehuber@uni-mainz.de)>

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## UMainz GenomicsNeurobiologyAnts

PhD position available on the evolution and organization of non-canonical olfactory systems in ants

We are seeking a motivated and talented student interested in understanding the evolution and organization of the olfactory system in ants (and other insects). The student will join a multidisciplinary team composed by Carlotta Martelli (neurobiology and computational biology), Hugo Darras (evolution and genomics) and Susanne Foitzik (behavior and evolution), two PhD students and one postdoc.

The project aims to unravel the organizational logic of the olfactory system in *Temnothorax* ants, from genes to neurons to behavior. The long-term goal is to identify evolutionary signatures of non-canonical organizations of the olfactory system and to understand the computational consequences of different architectures for odor coding and behavior. This innovative, interdisciplinary project combines neurobiological and behavioral experiments, molecular genetic analysis, genomics, transcriptomics, and theory.

This call is intended to fill a PhD position focusing on bioinformatics applied to genomic, single-cell transcriptomic and neurobiology analyses which will be co-supervised by H. Darras and C. Martelli in collaboration with S. Foitzik. The PhD student should have a strong interest in bioinformatics, ideally with theoretical or practical knowledge in single-cell transcriptomics, experience in comparative genomics and/or neurobiology. Training in evolutionary biology, experience in handling insects, and programming skills in Python would also be an advantage but are not prerequisites.

Funding for this position is secured over 3 years, with potential of extension. The PhD student will have the opportunity to be integrated into the GenEvo graduate program (<https://www.genevo-rtg.de/>), which offers a close-knit community of graduate students and provides training in molecular and evolutionary biology, as well as methodological courses such as on bioinformatics.

To apply, please send a letter of motivation, CV and contact information of two referees to [cmartell@uni-mainz.de](mailto:cmartell@uni-mainz.de) by January 21st, 2024.

For additional information, please contact us!

Carlotta Martelli [cmartell@uni-mainz.de](mailto:cmartell@uni-mainz.de), <https://->

[mrtllab.uni-mainz.de/](http://mrtllab.uni-mainz.de/) Hugo Darras [hdarras@uni-mainz.de](mailto:hdarras@uni-mainz.de), <https://www.blogs.uni-mainz.de/fb10-evolutionary-biology/darras-hugo/> Susanne Foitzik [foitzik@uni-mainz.de](mailto:foitzik@uni-mainz.de), <https://www.blogs.uni-mainz.de/fb10-evolutionary-biology/foitzik-susanne-prof-dr-2/> iDN and iomE, Johannes Gutenberg University Mainz, Germany

Hugo Darras <[hdarras@gmail.com](mailto:hdarras@gmail.com)>

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## UMississippi PhylogeographyEvolConservation

Graduate student position in Biology at University of Mississippi

The Garrick lab is seeking MS or PhD students to design and implement projects focused on: (1) Comparative phylogeography (reconstructing & comparing long-term population history of ecologically co-associated taxa); (2) Biodiversity hotspot prediction (surveying, quantifying, and predicting the spatial distribution of inter- and/or intraspecific biodiversity in the present and near future); OR (3) other projects closely related to evolution, and biodiversity conservation.

The lab has expertise in working with forest arthropods (esp. dead-wood-associated), and montane landscape settings (esp. Appalachians), but we are versatile. We encourage integration of fieldwork, molecular lab work, and computer simulations to advance understanding of evolutionary processes or to reconstruct past events.

Contact Ryan Garrick via email ([rgarrick\[at\]olemiss.edu](mailto:rgarrick[at]olemiss.edu)) to discuss potential projects.

The University of Mississippi Biology graduate application guidelines are available here (<https://-biology.olemiss.edu/programs/graduate/application-procedure/>), and for a Fall start, materials are due by January 15th 2024.

Ryan Garrick Department of Biology 508 Shoemaker Hall University of Mississippi University, MS 38677-1848, USA

webpage: <http://www.rcgarrick.org> [rgarrick@olemiss.edu](mailto:rgarrick@olemiss.edu)

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## UMissouri StLouis EvoDevoPlantReproduction

Are you fascinated by the diversity of plants and their reproductive structures? Is your goal a career in academia, biotechnology, agriculture, or government agencies in the most botanically focused city in the world? The Marchant Lab is opening at the University of Missouri - St. Louis and is recruiting PhD students to start Fall 2024. We are particularly interested in students with a background in plant biology, cellular biology, developmental biology, evolution, bioinformatics, or conservation; however, highly self-motivated students with a passion for botany and science are welcome to get in touch.

Who we are: The Marchant Lab (<https://www.marchantlab.com/>) is an innovative and collaborative research group at the forefront of both applied and basic plant sciences. We use single-cell RNA-sequencing (scRNA-seq), comparative genetics/genomics, and digitized herbarium specimens to investigate questions in plant reproductive biology, development, ecology, and evolution using both model and non-model plant systems. We are particularly interested in the biology and evolution of anthers. In the lab you will pursue a primary project plus there are ample opportunities for collaborative projects within the lab and with diverse cooperators. The lab atmosphere is supportive, inquisitive, and committed to providing each student with the most effective training cognizant with individual goals.

Where we are: We are based in the Biology Department at the University of Missouri - St. Louis (UMSL). With its world-class universities (UMSL, Washington University, St. Louis University), research institutions (Donald Danforth Plant Science Center, Missouri Botanical Garden), and agricultural companies (Bayer, Pivot Bio, Yield Lab), St. Louis has the highest concentration of plant science PhDs in the world and is an ideal setting for anyone interested in plant biology. St. Louis is one of the most livable cities in the US and was recently ranked the top city to start a career in.

If you are interested in joining the lab, email Dr. Marchant (dm9vh@umsl.edu) your CV and a brief statement on your background and research interests.

Applications for the UMSL Biology PhD program are due by December 15th and applications for the Masters

program are considered on a rolling basis. Teaching and/or research assistantships are guaranteed for PhD students for five years. The Marchant Lab welcomes international graduate students; however, please get in touch as soon as possible as your applications must also go through the International Students Office.

“Marchant, D. Blaine” <dblainemarchant@umsl.edu>

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## UNevada Reno EvoGenomicsBioinformatics

GRADUATE STUDENT POSITIONS IN EVOLUTIONARY GENOMICS AND BIOINFORMATICS AT THE UNIVERSITY OF NEVADA, RENO

The Alvarez-Ponce lab at the University of Nevada, Reno, is accepting applications from potential M.S and Ph.D. students.

Research in our lab focuses on the evolution of genes and genomes, and how this evolution is shaped by natural selection. Specific topics include rates of protein evolution, the evolution of molecular networks, the evolution of methylomes, and gene duplication. More information about the lab can be found at [www.genomeevol.wordpress.com](http://www.genomeevol.wordpress.com). The ideal candidates would have: - A strong commitment to conducting high-quality research. - A strong interest in Genomics and Molecular Evolution. - Experience with bioinformatics analyses, including programming in any scripting language (e.g., PERL or Python), or a strong willingness to learn. - Good communication and interpersonal skills. - The requirements to be accepted in one of UNR's graduate programs (Ecology, Evolution and Conservation Biology, Cellular and Molecular Biology, or Biology programs).

Official applications are due to the Graduate School in mid-December (EECB and CMB PhD programs) or at the beginning of February (MS in Biology program). Informal enquiries can be sent to Dr. David Alvarez-Ponce (dap@unr.edu), including: - A short application letter, addressing the applicant's motivation for the position, and how her/his experience and skills align with the requirements listed above. Please include your GPA and TOEFL/IELTS scores. - A CV. - Contact information for potential referees.

The University of Nevada, Reno offers an interactive

and productive research environment, including outstanding core facilities in genomics and bioinformatics. The Biology Department has a growing evolutionary genomics research community. Reno is located in the Sierra Nevada mountains near Lake Tahoe and has been recently rated as one of the best small cities in the US for outdoor recreation and overall quality of life.

Please circulate this post among suitable candidates.

David Alvarez-Ponce, PhD (he/him/él) Associate Professor Department of Biology University of Nevada, Reno Max Fleischmann Building, office 147A Tel.: (775) 682-5735 [www.genomeevol.wordpress.com](http://www.genomeevol.wordpress.com) David Alvarez-Ponce <david.alvarez.ponce@gmail.com>

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## UOttawa Two ConservationGenomics

PhD: Conservation genomics of peripheral populations of plants

The Lee-Yaw lab at the University of Ottawa is looking for a PhD student who is enthusiastic about conservation genomics and plants. This is a fully funded position that is co-supervised with Dr. Jenny McCune from the University of Lethbridge. The student will work alongside others who are establishing new populations of rare and at-risk plants in southern Ontario. As part of these efforts, we wish to understand a) how populations at the edge of the range in Ontario are related to more central populations in USA and b) whether populations in Ontario are genetically isolated from each other. One of the study systems is likely to be crooked-stem aster (*Symphyotrichum prenanthoides*) but work on other species is possible. Apart from these questions, the student will have an opportunity to develop a thesis more generally exploring rarity, landscape genomics, genetic constraints on range limits, or other questions in ecology or conservation biology.

Eligibility

The successful applicant will ideally have an MSc involving molecular lab work. Previous experience working with plant DNA and genomic data is preferred. Molecular work and PhD program requirements are to be completed at the University of Ottawa. However, the student has the option to spend time in the McCune lab at the University of Lethbridge in Alberta. Field-

work in southern Ontario is optional during the first summer but data collection will take place in the lab. This position is open to both domestic and international students, however priority will be given to Canadian citizens or residents. Black and Indigenous students, People of Colour, and members of the LGBTQ2+ are encouraged to apply. The University of Ottawa is a bilingual French-English institution and bilingual students are very welcome.

Stipend support

This position is primarily funded from an NSERC Alliance grant to J. McCune and supplemented by funding to both PIs. Minimum stipend support from TAs and research grants is \$30,000 per year for four years (this is a starting point: additional top-up is possible contingent on scholarships and additional grant applications). Students are strongly encouraged to apply for external scholarships.

To apply

Send an email to [jleeyaw@uottawa.ca](mailto:jleeyaw@uottawa.ca) by January 10, 2024. Include:

- 1) A statement clearly outlining your research interests, career goals, and how your previous experiences and training have prepared you for a PhD and relate to this project.
- 2) Your CV
- 3) Unofficial copies of your undergraduate and MSc (if applicable) transcripts

Start date

May or September 2024.

For more information about the Lee-Yaw lab, visit [www.leeyawlab.ca](http://www.leeyawlab.ca). For more information about the McCune lab, visit <http://jlmccune.weebly.com/>. Julie A. Lee-Yaw (she/her/elle) Professeure adjointe | Assistant Professor Faculté des sciences, département de biologie | Faculty of Sciences, Biology Department Université d'Ottawa | University of Ottawa 30 Marie Curie, Ottawa, ON, K1N 9B4 Pavillon Gendron 376 | Gendron Hall 376

(613) 562-5800 ext: 6357 [leeyawlab.ca](http://leeyawlab.ca)

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PhD in evolutionary ecology or global change biology

Ideal start date: May 2024 or September 2024

The Lee-Yaw lab is looking for a motivated student with a background in GIS data analysis or population/conservation genomics who is interested in developing a project in one of the lab's core areas of interest:

1. Phylogeography and the history of species' ranges
2. Evolutionary ecology of range limits
3. Impacts of global change on species' distributions
4. Conservation genomics

Visit the lab website for more information: [www.leeeyawlab.ca](http://www.leeeyawlab.ca). We currently have funding to support genomic or field-based studies on specific amphibian systems in western Canada but there may be additional funding to support work on other systems. Projects may also/alternatively make use of available in-house or public datasets. The student may initially work on an existing project in the lab to get started but are encouraged to bring their own ideas and to develop additional research projects.

#### Eligibility

The applicant must have a MSc in ecology or evolution, excellent project management and/or leadership skills, strong writing skills, and experience related to the research they propose. There are no citizen requirements; However, there are GPA admission requirements for international students. Students who are eligible for NSERC or Ontario Graduate Scholarships are expected to apply for these scholarships. Black and Indigenous students, people of colour, and members of the LGBTQ2+ are encouraged to apply and may be eligible for extra support. The University of Ottawa is a bilingual French-English institution and bilingual students are very welcome.

#### Stipend support

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## UOxford EvolControlCropDisease

Fully funded PhD Position available in Department of Biology and Department of Statistics, University of Oxford

Title: Evolutionary modelling to design optimal genetic control methods for crop diseases

Supervisors: Prof Tim Barraclough (Department of Biology), Prof Alison Etheridge (Statistics), Dr Jennie Castle (Economics)

This position is fully funded for stipend and international fees

Pests and disease account for losses of 30% of plant crops worldwide. Losses would be greater still without existing control methods, which focus on resistant varieties and chemical pesticides. Current approaches are unsustainable, however. Pests evolve to overcome any new control within 5 years or so, leading to a continual 'arms race' with agriscience needing to develop new varieties and chemicals. Also, pesticides have off-target effects on other species, which leads to environmental deterioration and a reduction in the resilience and productivity of crop systems themselves. Policy makers recognise the need to reduce chemical inputs and limit the land area devoted to intensive agriculture, but we currently lack ways to do that without losing more crops to plant disease. We need to develop more specific control measures with fewer off-target effects and that are more robust and agile for counter-acting the evolution of resistance.

New genetic methods such as CRISPR-Cas, RNAi sprays and gene drive open up the possibility of precision methods of controlling crop pests and diseases. But which genes or sets of genes should we target? Should we target them simultaneously or sequentially? How will the organisms evolve in response to the selection imposed by a given genetic control programme? And how will these methods interact with other components of crop management? This project will use mathematical models of evolving populations to develop design principles for future genetic control methods. It will then calibrate and evaluate their models against genome sequence data from evolutionary time-series of crop diseases. The work will combine mathematical models of gene network evolution in fluctuating environments, with whole-genome simulation studies tied to empirical datasets.

The project is suitable for a biologist with strong computing and quantitative skills, or for any quantitative scientist (e.g. mathematician, physicist, computer scientist) with interests in solving evolutionary biology and environmental problems. Training will be provided in modelling, computing, statistics, genomics and crop disease biology. The student will be co-supervised by Prof Tim Barraclough (Biology), Prof Alison Etheridge (Statistics).

The studentship is part of a project generating evolutionary time-series of crop pathogens and applying that knowledge to develop new control methods. Funded by Magdalen College's Calleva Research Centre, the project forms an collaboration between Biology, Statistics and Economics at Oxford, and the National Institute for Agricultural Botany (NIAB) in Cambridge.

A video describing the wider research programme is available here: [https://www.youtube.com/watch?v=-AsYv\\_aA4aVw](https://www.youtube.com/watch?v=-AsYv_aA4aVw) Funding: The project is funded by the Calleva Centre for Evolution and Human Science at Magdalen College (<https://www.magd.ox.ac.uk/about-magdalen-college/research/calleva-research-centre/>) It covers full funding for either a home or international student, including all fees and a yearly stipend at UKRI rates in 2023-2024 of 19,162.

Eligibility: Home or international students. For full entry requirements and eligibility information, please see <https://www.ox.ac.uk/admissions/graduate/courses/dphil-biology> How to apply: The deadline for applications for this project entry is midday 5th January 2024. You can find the admissions portal and further information about eligibility and the DPhil in Biology Programme at <https://www.ox.ac.uk/admissions/graduate/courses/dphil-biology> Please quote the Project Reference Code CALLEVABIO2023 in the 'Proposed field and title of research project, if applicable' field in the application form.

The successful applicant will receive a place at Magdalen College. <https://www.magd.ox.ac.uk> Queries: Prof Tim Barraclough [tim.barraclough@biology.ox.ac.uk](mailto:tim.barraclough@biology.ox.ac.uk)

Prof Tim Barraclough Professor of Evolutionary Biology, Department of Biology, University of Oxford, Tutorial Fellow, Magdalen College, Telephone: +44 (0)1865 271109 <https://www.biology.ox.ac.uk/people/professor-tim-barraclough> The Evolutionary Biology of Species Timothy G. Barraclough

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## UStrasbourg EvolutionOfPlantMetabolism

Tag: UStrasbourg\_EvolutionOfPlantMetabolism

Fully funded PhD position available at the IBMP CNRS/University of Strasbourg to explore the role of defense autotoxicity protection for plant metabolism evolution

Project description: Manipulating plant specialized metabolite (PSM) pathways can lead to the accumulation of toxic intermediates, indicating that in addition

to defensive function selection, autotoxicity avoidance act as a key constrain in the evolution of PSMs. However, the extent to which autotoxicity protection mechanisms co-evolve with defensive functions and shape plant chemodiversity dynamics remains largely unexplored. The successful candidate will integrate the recently funded ANR-DFG EVOMET that will employ a state-of-the-art multiomics approach to understand the evolution of PSMs in the Solanaceae. This project involves the establishment of metabolomics-transcriptomics atlases as well as case-studies to decipher how autotoxicity avoidance and defense deployment are balanced. The doctoral student will notably be in charge of metabolomics and functional analyses and will benefit from the strong synergy established with the group of Prof. Dr. Shuqing Xu (University of Mainz, <https://plant-x.uni-mainz.de>), partner of the EVOMET project. For more details on our recent research on the topic, please see the following publications: Elser et al. (2022) (10.1126/sciadv.ade8984), Heiling et al. 2021 (10.1093/plcell/koab048), Li et al. (2020) (10.1126/sciadv.aaz03)

Requirements: We seek a highly motivated PhD student with a Master degree in plant evolutionary biology/biochemistry with experience in some of the following fields: evolutionary biology, metabolite analysis and RNAseq analysis. Interdisciplinary research interests, excellent communication skills as well as proficiency in spoken and written English are expected.

We offer a vibrant research environment that includes access to state-of-the art research facilities (MS metabolomics, NGS bioinformatics, MS imaging,  $\hat{A}$ ), an exciting interdisciplinary research project and a dedicated training in emerging techniques in metabolomics and multiomics. The work will be carried out at the Institut de Biologie Moléculaire des Plantes (IBMP, [www.ibmp.cnrs.fr](http://www.ibmp.cnrs.fr)), the largest CNRS institute dedicated to plant biology research. The institute is located in the vibrant city of Strasbourg, at walking distance of the historical center.

The successful candidate will start on Feb / March 2024. The salary will initially be provided for three years.

How to apply: Applications must include a motivation letter, a CV, contacts of 1-2 previous mentors and be sent at: <https://emploi.cnrs.fr/Offres/Doctorant/UPR2357-EMMGAQ-002/Default.aspx?lang=EN> Please e-mail enquiries about the project to [emmanuel.gaquerel@ibmp-cnrs.unistra.fr](mailto:emmanuel.gaquerel@ibmp-cnrs.unistra.fr).

Emmanuel Gaquerel Professor Institute of Plant Molecular Biology (IBMP) | Evolution and Diversity of Plant Metabolism CNRS | University of Strasbourg 12 rue du Général Zimmer

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www.ibmp.cnrs.fr](http://www.ibmp.cnrs.fr) “emmanuel.gaquerel@ibmp-  
cnrs.unistra.fr” <emmanuel.gaquerel@ibmp-  
cnrs.unistra.fr>

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## UWaikato NewZealand PopGenomics

Species are on the move globally, but how do they survive in new environments when they get there? What are the key predictors of invasion success? These are hard questions, hampered by a lack of appropriate model systems and an inability to know when and why introductions fail or succeed. This broader project explores the hypothesis that more invasive species and populations have, or rapidly evolve, a greater extent of genomic and phenotypic innovations that enable their success in new environments. To test this, we will unite experimental evolution with ecological, genomic, and modelling approaches in a system of endemic and differentially invasive blowflies to determine what it takes to be a successful invader.

We are seeking a 2024 PhD applicant to explore a variety of questions available in the system, with one major focus to be establishing an experimental evolution case study to elucidate the effects of genetic diversity and foundation size on invasion success. The successful student will therefore have excellent management and record-keeping skills, and high attention to detail. Knowledge or interest in developing skills in the analysis of genomic data (especially population genomics), and in phenotyping and analysis of life history traits (particularly in insects), are highly desired. Interest in getting out into the field, and an ability to work well with others as well as alongside a fantastic team towards common

objectives, will further help to make you a great fit for this project!

The successful applicant will be based at the University of Waikato under the Chief Supervision of Dr. Ang McGaughran and will be co-supervised by Prof. Murray Cox (Genomicus Consulting), Prof. Ruth Haufbauer (Colorado State University, USA), and Dr. Nathan Butterworth (Monash University, Australia). There will be opportunities to spend time in the different labs and to participate in fieldwork (e.g., in locations such as New Zealand, Australia, USA). This is a fully funded PhD position (\$35,000 p/a stipend plus fees).

Hamilton is an inland city in the North Island of New Zealand. It is bisected by the Waikato River and is the country’s fourth-most populous city. Within close proximity are some of the best surf and swimming beaches in the country, as well as beautiful cultural areas and walking tracks. The University of Waikato is a leading New Zealand university, with the Hamilton campus offering modern facilities, vibrant student life, and easy access to nature and recreation. Our landmark new building <https://www.waikato.ac.nz/news-opinion/media/2023/university-of-waikato-opens-the-pa-mau-maku-ma-tatou-katoa> is a special feature of campus life that reinforces our distinctiveness and the interconnectedness of the campus community. For more information about Te Aka Mātuatua School of Science, please visit [our website](http://www.sci.waikato.ac.nz/) < <http://www.sci.waikato.ac.nz/> >.

To apply for this opportunity to do exciting, cutting-edge research with real-world applications, please send an interest statement and CV to: [\\*amcgaugh@waikato.ac.nz\\*](mailto:amcgaugh@waikato.ac.nz) <[amcgaugh@waikato.ac.nz](mailto:amcgaugh@waikato.ac.nz)>. Enquiries at the same email address are welcome.

**\*Dr. Angela (Ang) McGaughran FHEA\* \*Senior Lecturer\* Te Aka Mātuatua - School of Science University of Waikato Private Bag 3105 Hamilton 3240 New Zealand**

[www.ang-mcgaughran.com](http://www.ang-mcgaughran.com) \*Google Scholar\*

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## Brigham Young U Vertebrate Biologist

Brigham Young U. Vertebrate Biologist

Job Title: Vertebrate Biologist

Job Classification: CFS Professorial (BYU equivalent to tenure-track)

Posting close date: 1/13/2024

Start date of this position: August 2024

Required Degree: Ph.D.

Experience: The Department of Biology seeks to fill a full-time, Continuing Faculty Status (BYU's equivalent to tenure)-track position in vertebrate biology. We seek a colleague who conducts research in ecology or evolution with a focus on the organismal biology of vertebrates. The qualified candidate is required to have a PhD. Postdoctoral or comparable experience is required. Expertise at the organismal level in a vertebrate group is required.

Duties/Expectations: The department expects the successful candidate to be a committed, imaginative, and collaborative scholar with a vision for research, mentoring, and teaching. The successful applicant will be expected to pursue external funding for their research

program while mentoring both undergraduate and graduate students. There are many opportunities for collaborative and cross-disciplinary links within the department (<https://biology.byu.edu/>) and with the DNA Sequencing Center, Evolutionary Ecology Laboratories, Lytle Nature Preserve, and the BYU Life Science Museum (including opportunities for curation within your taxonomic expertise). Undergraduate teaching responsibilities will include a course in Animal Diversity (vertebrate portion), a vertebrate-focused upper-level course (i.e., Ichthyology, Herpetology, Ornithology, or Mammalogy), and/or other undergraduate courses. Graduate teaching expectations include our Evolutionary Ecology course, or other graduate courses consistent with the area of specialization. A willingness to strive for excellence in teaching is expected. Candidates are expected to build an equitable and diverse scholarly environment in teaching, mentoring, research, life experiences, and service. The department offers competitive start-up packages and reduced teaching loads for new faculty. The expected start date is August 2024, but the start date is negotiable.

As a campus with a commitment to fostering a diverse student body, we encourage all qualified applicants to apply including women, minorities, and individuals with a commitment to mentoring under-represented demographics in the sciences. Interested persons should apply online at <https://yjobs.byu.edu> completing a faculty application which includes a mission alignment statement (see full ad linked below for details), a current CV,

cover letter, and statements of teaching and research interests. As part of the cover letter, we invite candidates to describe their experiences and plans for engaging a diverse student body in substantial research and mentoring activities. Provide contact information for three references on the faculty application. They may be contacted to submit letters of recommendation electronically at some point during the selection process. Questions may be directed to: Dr. Mark C. Belk, Chair, Vertebrate Biology Faculty Search: mark\_belk@byu.edu (4102 LSB BYU-Department of Biology Provo, UT 84602, USA).

See the full job ad and link to apply here: [https://hrms.byu.edu/psc/ps/PUBLIC/HRMS/-c/HRS\\_HRAM.HRS\\_APP\\_SCHJOB.GBL?Page=-HRS\\_APP\\_SCHJOB&Action=U&FOCUS=-Employee&SiteIdp](https://hrms.byu.edu/psc/ps/PUBLIC/HRMS/-c/HRS_HRAM.HRS_APP_SCHJOB.GBL?Page=-HRS_APP_SCHJOB&Action=U&FOCUS=-Employee&SiteIdp) John Sproul <john.sproul@byu.edu>

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## ColoradoU Boulder Botany Collections Manager

The CU Museum of Natural History is encouraging applications for The Museum Collections Manager - Botany position. The manager works collaboratively with the section Curator in meeting the goals of the section as they apply to the mission of the museum contributing to the knowledge of the natural world and human history through research, teaching, and public education as well as together serving as the stewards for the collections in preservation and accessibility for future generations. The University of Colorado Boulder is committed to building a culturally diverse community of faculty, staff, and students dedicated to contributing to an inclusive campus environment. We are an Equal Opportunity employer, including veterans and individuals with disabilities

Full details are here: <https://jobs.colorado.edu/jobs/-JobDetail/Museum-Collections-Manager-Botany/-53223> What we require: Master's degree in museum studies or in a relevant field of study and one year of experience in related museums collections work, or equivalent combination of education and experience may substitute.

What we would like: Experience in a collection management or curatorial or related position. Applicants

should have a working knowledge of the flora/biota of Colorado and/or western North America.

Your key responsibilities will be:

\*I. Curation and Collections Administration\*

\*Specimen Curation and Care\*

- Possesses expert knowledge in the care and management of museum collections and expert subject area knowledge of the collection types.
- Manages daily curatorial needs of permanent collections and research and teaching collections, including specimen/object preparation and processing, identification, cataloging, housing, and conservation.
- Reviews and processes collections transactions (accessions, loans, deaccessions, and repository agreements), ensuring strategic alignment with unit objectives and compliance with local, state, federal, and international laws.
- Facilitates unit projects and initiatives, including grant project implementation and management.
- Ensures long-term preservation conditions of physical collections through environmental monitoring, integrated pest management, storage infrastructure, archival practices, and collections improvement activities.
- Reviews and processes collections use requests and facilitates research access (loan and exhibit proposals, research visits, destructive sampling, image rights, etc.).
- Maintains accurate collection inventories, object tracking, and access control.
- Works to improve and expand collections by facilitating donations, acquisitions, and/or field collections, as appropriate, including establishing relationships with local agencies and donors or participating in fieldwork.
- Maintains section archives, publications, and library.
- Manages and monitors environmental, health, and safety conditions in collections and lab areas.
- Prepares collection objects and data for in-person and virtual exhibitions and collaborates on social media content.
- Serves as or works with building proctors to ensure the facilities are sufficient for protecting specimens/objects and staff.
- Responds to emergency situations that threaten the collections, e.g., protecting specimens/objects, detailing the nature and extent of damage, working with facilities management for proper cleanup actions, and facilitating the conservation of specimens/objects following an emergency.
- Participates in cross-department groups (i.e., collections committee, working groups, etc.) to accomplish collections-wide objectives.

\*Legal Compliance\*

- Serves as principal officer for relevant permits and licenses and is responsible for all collections-related legal compliance activities on behalf of the museum and the university, including reporting requirements: e.g., Archaeological and Paleontological Resources Protec-

tion Acts, Endangered Species Act and various wildlife Protection Acts, Native American Graves Protection and Repatriation Act. - Ensures accessions are legally and ethically sound transactions (i.e., incoming materials are accompanied by legal documentation, such as signed deeds of gift, all relevant permits, and provenance documentation). - Manages state and federal permits/licenses pertaining to specimen/object holdings, collecting activities, and specimen/object transport (e.g., public land permits, Dangerous Goods regulations, import/export permits, scientific collecting licenses, wildlife salvage permits), including correspondence and required reporting to relevant regulatory agencies (APHIS, DOT, CDOW, IATA, NPS, USDA, USFWS). - Manages repository agreements with state and federal agencies. - Prepares deaccessions for review by the Curator and Collections Committee and ensures ethical disposal or transfer.

\*Data Management\*

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## DrexelU Philadelphia EvolDepartmentHead

The Department of Biology at Drexel University is conducting a national search for the position of Professor and Department Head. Drexel is an academically comprehensive and globally engaged urban research university. Biology is the largest undergraduate major and is a highly research-active department in the College of Arts and Sciences at Drexel. Research in the department is diverse, including evolutionary and organismal biology, cellular and molecular biology, neurobiology, and STEM education. We seek an experienced and engaged academic leader to further promote the research, teaching, service, and mentorship missions of the department. We are especially interested in candidates that can foster departmental community, diversity and inclusion. Please see the position posting and application at: <https://careers.drexel.edu/en-us/job/502318/-professor-department-head-biology> Megan Phifer-Rixey, PhD

she/her/hers

Assistant Professor

Department of Biology

Drexel University

Philadelphia, PA 19104

“Phifer-Rixey,Megan” <mp3754@drexel.edu>

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## FieldMuseum Chicago AssistCura- torInvertebratePaleontology

Assistant Curator of Invertebrate Paleontology

Chicago, IL

The Field Museum invites applications for an Assistant Curator of Invertebrate Paleontology. This term position has a probationary period of 3 + 3 years. After successful promotion to the Associate level, it is renewable every seven years, according to the Field Museum’s Policy Statement on the Curatorial Ranks. The Field Museum’s Earth Science Section has a record of scientific excellence in collections-based research, fieldwork and exploration, with current strengths in phylogenetic systematics, comparative and functional morphology, paleoecology, paleoclimate, macroevolution, vertebrate paleontology, paleobotany, meteoritics, and cosmochemistry.

We are seeking a collegial individual with strong communication skills who conducts innovative, integrative, and collaborative research in Invertebrate Paleontology that will complement and expand the section’s strengths. Our Fossil Invertebrate collections are world-class and host an incredible diversity of specimens. The Field Museum’s two million-plus fossil invertebrate collection is focused on the Paleozoic of the Midwest and Great Lakes regions with significant collections of the Pennsylvanian Mazon Creek Lagerstätte, Devonian fossils from the Falls of the Ohio area, Silurian reef fossils from the Chicago area, and early Paleozoic echinoderms. Notable historical collections include those of the University of Chicago’s Walker Museum, S. Weller, J. Hall, A.W. Slocum, E.S. Richardson Jr., A. Schrammen, and W.F.E. Gurley, among others. The invertebrate collection also hosts many undescribed arthropods, mainly insects, from the Eocene Fossil Lake deposit from the Green River Formation, as well as over 3,500 fossilized insects in Dominican and Baltic amber.



Candidates who utilize state-of-the-art methodologies/technologies are encouraged to apply. The successful candidate will be envisioned to maintain an externally funded field and laboratory research program, oversee, build, and study the Invertebrate Paleontology collections, and participate in Museum exhibitions, public outreach and education, and programmatic efforts. Close relationships with local universities provide opportunities for participation in graduate and undergraduate training. A Ph.D. in a relevant discipline must be held by the start of employment, and the successful candidate would be expected to start the position during the 2025 calendar year.

To apply and for inquiries, please email: [invertpaleo@fieldmuseum.org](mailto:invertpaleo@fieldmuseum.org).

Applications should include: (1) a Curriculum Vitae; (2) a statement of research interests and career objectives (max. three pages); (3) a statement on curatorial vision (max. two pages); (4) a statement on diversity, equity, inclusivity, and accessibility in a museum context (max. two pages); (5) names and contact information for three people from whom letters of recommendation may be sought; and (6) copies of up to 5 relevant publications in PDF format. The deadline to submit an application is March 31, 2024.

The Field Museum is an equal opportunity workplace and employer. We are committed to equal employment opportunity without discrimination regarding race, color, ancestry, religion, sex, national origin, sexual orientation, age, citizenship, marital status, disability, gender identity, veteran status, or any other protected class. We strive to create a working environment that is free of all forms of discrimination and one that promotes human dignity and mutual respect among all staff. We believe every member of our organization enriches our diversity by exposing us to a broad range of ways to understand and engage with the world, to identify challenges, and to discover, design, and deliver solutions.

The Field Museum strives to ensure that our career website and recruiting process are accessible to all. If you are unable or limited in your ability to use or access our online application, or if you require reasonable accommodation in completing this application, interviewing, completing any pre-employment testing, or otherwise participating in the employee selection process, please direct your inquiries to [accessibility@fieldmuseum.org](mailto:accessibility@fieldmuseum.org).

Amanda Dick <[adick@fieldmuseum.org](mailto:adick@fieldmuseum.org)>

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## MaxPlanckInst Konstanz AnimalBehaviourCoordinator

The Max Planck Institute of Animal Behavior at its sites in Konstanz and Radolfzell offers an international, interdisciplinary, and cooperative environment that opens up unique research opportunities. The goal of our basic research is to develop a quantitative and predictive understanding of the decisions and movements of animals in their natural environment.

The International Max Planck Research School for Quantitative Behaviour, Ecology and Evolution: From Lab to Field (IMPRS-QBEE), an internationally renowned doctoral program of the Max Planck Institute of Animal Behavior in cooperation with the University of Konstanz would like to fill the following position from March 1, 2024. The position will be located at Konstanz and Radolfzell.

IMPRS Coordinator (m/f/d) 100%

The position is limited to four years and can be extended by applying for the IMPRS permanency in the next phase.

Your tasks Your responsibilities include the coordination of the doctoral program, including

- \* Planning and organization of the international recruitment and selection process of young scientists
- \* Continuation of the Stepping Stone program for early researchers of partner organisations worldwide
- \* Supporting the spokesperson within the management of IMPRS
- \* Providing professional, social and pastoral support to the young scientists
- \* Planning, organizing, coordinating the continual further development of courses and scientific symposia
- \* Supporting the social media channels and online presence
- \* Planning and implementing promotional activities
- \* Reliably administering a proper budget
- \* Coordination of tasks and duties with support team

Your profile

- \* Graduate degree (masters or preferably doctoral degree) in Biology (or a similar scientific field)
- \* Work experience in an international environment
- \* Experience in scientific management, support of young scientists and the acquisition of third-party funds are an advantage
- \* Excellent organizational and management skills
- \* Proficiency in written and spoken English and German

\* Competent use of modern media and computer skills  
 \* Broad interests, good interpersonal and intercultural skills, and the ability to work in a team

Our offer

An interesting job in an open-minded team. We offer a responsible and varied work place in a growing interdisciplinary and international research institute. The payment is made in accordance with your qualification and the collective agreement for the public service (TVi<sub>i</sub><sup>1</sup>/<sub>2</sub>D-Bund).

The Max Planck Society endeavors to employ more severely disabled people. Applications of severely disabled persons are expressly welcome. The Max Planck Society strives for gender and diversity equality. We welcome applications from all backgrounds.

Your application

Are you interested? Then we are looking forward to receiving your application until January 31, 2024 under this link to our applicant management system < <https://bewerbermanagement.net/en/jobposting/-1d1816b57bed6b66c75709ef0d3121bf364afc300/apply> > (<https://bewerbermanagement.net/jobposting/-1d1816b57bed6b66c75709ef0d3121bf364afc300?ref=homepage>).

Questions about this position will be answered by Mi<sub>i</sub><sup>1</sup>/<sub>2</sub>ggi Hieber (mhieber@ab.mpg.de ) and Daniel Piechowski (dpiechowski@ab.mpg.de ). Interviews are scheduled for February 20, 2024.

maeggi.hieber@uni-konstanz.de

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## MaxPlanckInst ResAssist WildOrangutanEvolution

Field Assistant Orangutan Behavior and Cognition 2024

We are looking for a field research assistant to help collect observational behavioral data for my Ph.D. project on curiosity and cognition in wild orangutans at the Development and Evolution of Cognition Research group at the Max Planck Institute of Animal Behavior. The data will be collected on wild orangutans from May 2024 - April 2025 (12-month field stay). There is an option of combining this position with a Master's project, given that the student is enrolled and officially supervised at

a University.

The Project

Curiosity plays a key role in learning and innovation. However, the interplay between curiosity and cognitive performance remains poorly understood. With this project, we aim to investigate the factors that affect curiosity and problem-solving in wild orangutans to ultimately shed light on how the two traits are connected on the developmental and evolutionary levels.

Details

The data will be collected at a field site in Indonesia. The research area is a peat swamp forest, meaning that most of the forest floor is flooded throughout the year. Living conditions are basic, with limited access to electricity and phone signal reception. There is limited personal space, and the candidate will share their room with other assistants or researchers. Food will be provided at camp, mostly consisting of rice, eggs, and a limited range of fruits and vegetables that will be prepared by a local cook. The work includes long working days collecting data from dawn until dusk. A high level of physical fitness is required as the applicant will walk up to 10km a day while carrying heavy equipment, also on rainy days. We are looking for an excellent observer who can stay focused and motivated for long periods and over repetitive tasks. Walking in the forest is difficult and tiring, continuously surrounded by mosquitoes and other insects and often wading through flooded areas. In addition to data collection, the assistant will clean, label, and store data and equipment which requires detail orientation and organizational skills.

In the forest, we always work in teams with researchers and/or local assistants. Teamwork skills are essential; the candidate must be able to communicate in a clear and assertive style, while also being patient, flexible, and highly sensitive to cultural differences.

Before fieldwork can be started, the assistant must complete all visa and research permit processes; including an up to four weeks stay in a local city. By the time of their departure, the candidate must be up to date with required vaccinations, including COVID-19.

Requirements:

Degree in Cognitive or Evolutionary Biology, Comparative psychology, or a related field and high interest in animal behavior

Fluent in spoken and written English skills, willingness to learn the local language Bahasa Indonesia

A high level of independence and experience in traveling on their own

Experience in collecting and processing behavioral data  
 Psychological resilience, readiness to live in an isolated area with limited personal space

Open-mindedness and willingness to adjust to cultural differences

Good observational skills and attentiveness to details

Physical endurance and stamina

Willingness to take advice from travel health specialists and be up to date with vaccinations

Desired experiences & skills:

Field work experience

Experience with video coding of behavioral data

Experience with data management

Experience conducting cognitive tests with primates

What we offer:

All project-related costs (round-trip flight from and to home country, visa, permit fees, lodging at camp, etc.) will be covered. A small monthly stipend will be provided to ensure that the candidate faces no personal costs during the position.

Please send your application along with related questions to Adriana Luna (aluna@ab.mpg.de) by 15th January 2024, including your CV, a short motivation letter, and the contact information of two references.

Adriana Luna <adrianalunamartz@gmail.com>

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## NCBI Botany Taxonomy Scientist

National Institutes of Health (NIH) National Library of Medicine (NLM) National Center for Biotechnology Information (NCBI) Information Engineering Branch (IEB) Staff Scientist 1

Position Information

The National Library of Medicine (NLM), National Center for Biotechnology Information (NCBI) is recruiting for a Staff Scientist 1 in the Information Engineering Branch (IEB) to support the curation activities of the NCBI Taxonomy team.

NLM is a global leader in biomedical informatics and computational health data science and the world's

largest biomedical library. NLM's legislative mandate is to support the essential work of acquiring, organizing, preserving, and disseminating biomedical information. NLM provides public access to this information 24 hours a day, seven days a week. As part of NLM, NCBI performs applied research in data representation and analysis, including the development of computer-based systems for the storage, management, and retrieval of knowledge relating to molecular biology, genetics, and biochemistry.

The NCBI Taxonomy team provides a curated classification and correct nomenclature for all organisms represented in GenBank and its partners in the International Nucleotide Sequence Database Collaboration (INSDC). The activities of the NCBI Taxonomy team are reflected in nearly all NCBI sequence data resources, including BLAST, Gene, SRA, RefSeq, GEO, and NCBI Datasets, as well as in numerous data resources external to NCBI.

Taxonomic database curation includes verifying taxon names, ensuring that they are nomenclaturally correct, and their classification is consistent with current knowledge. This activity involves frequent interactions with software developers on the team, as well as other NCBI teams who use the outputs of NCBI Taxonomy, sequence data submitters, and members of international research communities.

The incumbent will be responsible for:

§ Verifying, correcting, classifying, and adding green plant and algae names (and other groups, as necessary) to the NCBI Taxonomy database

§ Review of the taxonomic literature to identify curation needs and opportunities

§ Outreach to relevant communities

§ Communicating curation needs to software developers

Position Requirements

The ideal candidate may or may not be a United States citizen and must have a doctoral degree.

We are looking for an individual with:

§ A Ph.D. in a quantitative field, such as Biology, centered on Botany, with experience in Phycology desirable

§ A broad knowledge of botanical nomenclature and the latest taxonomic literature

§ A strong track record in research as evidenced by peer-reviewed publications

§ Familiarity with phylogenetic systematics

§ Excellent communication and organizational skills

§Ability to work independently as well as a part of a team in support of shared objectives

§Proven ability to work on interdisciplinary projects not directly related to their training

§Demonstrated experience in directing and coordinating complex research and development projects

§Exposure to commonly used scripting languages used by biologists, such as R and Python

§Basic experience in taxonomic and general data management including some familiarity with general bioinformatics formats such as JSON and XML

§Mentoring experience

#### FOREIGN EDUCATION:

Selectee who has completed part or all their education outside of the United States must have their foreign education evaluated by an accredited organization to ensure that the foreign education is equivalent to education received in accredited educational institutions in the United States. We will only accept the completed foreign education evaluation. For more information on foreign education verification, visit the National Association of Credential Evaluation Services (NACES) website. Verification must be received prior to the effective date of the appointment.

#### Benefits

Salary is commensurate with research experience and accomplishments. A full package of benefits, including retirement, health, life, and long-term care insurance, Thrift Savings Plan participation, etc., is available.

The successful candidate will serve in a non-competitive appointment in the excepted service.

#### How to Apply

Interested individuals should send a copy of their CV and Bibliography with the names of three references along with a cover letter detailing research interests, a brief summary of communication and organizational skills, and evidence of engagement in multi-disciplinary collaborative research to [ncbijobs@ncbi.nlm.nih.gov](mailto:ncbijobs@ncbi.nlm.nih.gov). Please include the announcement number, NLM4737-2023, in the cover letter. Do not include your birth date, social security number (SSN), or personal photograph on application materials.

Applications will be accepted until the position is filled.

DHHS, NIH and NLM are Equal Opportunity Employers

The NIH is dedicated to building a diverse community in its training

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## NorthCarolinaStateU BiologyDeptHead

The Department of Biological Sciences at North Carolina State University (NC State) invites applications for the position of Department Head.

The appointment will be at the level of tenured full professor. We seek an ambitious and innovative leader with a creative, sustainable vision for a multidisciplinary biological science department at a large land-grant university that has a broad campus-wide environment of cutting-edge research and teaching. Potential candidates must have a Ph.D. in a field represented in Biological Sciences or a very closely related field. Potential candidates should also have strong organizational, communication, and leadership skills, experience in teaching and mentoring, a broad understanding of biological sciences, a strong research program, and exceptional scholarly achievements. Prior successful administrative or programmatic leadership experience is desirable. Prior experience and demonstrable skills in leading and managing programs, within modern land-grant universities is desirable.

Review of applications will begin on January 5, 2024; the position will remain open until filled.

For more information and to apply, please see: <https://jobs.ncsu.edu/postings/191823> Caiti Smukowski Heil, PhD Assistant Professor | Biological Sciences North Carolina State University

Office: 919-515-2709 3556 Thomas Hall Raleigh, NC 27695 [www.heillab.com](http://www.heillab.com) she/her/hers

“cheil@ncsu.edu” <[cheil@ncsu.edu](mailto:cheil@ncsu.edu)>

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## NorthwesternU PlantBiologyConservation

Assistant Professor of Instruction in Plant Biology and Conservation at Northwestern University:

The Program in Plant Biology and Conservation (PBC) at Northwestern University is excited to invite applications for a full-time, benefits eligible, teaching track (non-tenure eligible) faculty appointment as Assistant Professor of Instruction. The Plant Biology and Conservation program is offered jointly with the Negaunee Institute for Plant Conservation and Action at the Chicago Botanic Garden and administers master's and PhD degrees, as well as serves undergraduates. Northwestern University and the Chicago Botanic Garden offer a rich intellectual environment, and the successful applicant will join a highly interactive and vibrant community.

Review of applications will begin Jan. 8 and continue until the position is filled.

Find out more and apply here: <https://plantbiology.northwestern.edu/now-hiring.html>

Other links: Plant Biology and Conservation: <https://plantbiology.northwestern.edu/> Negaunee Institute for Plant Conservation and Action at the Chicago Botanic Garden: <https://www.chicagobotanic.org/research>  
Nyree J C Zerega <n-zerega@northwestern.edu>

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## OhioStateU GenotypePhenotypeInteractions

Integrative Biologist (Genotype-to-Phenotype) Department of Evolution, Ecology and Organismal Biology College of Arts and Sciences The Ohio State University

Position Overview The Department of Evolution, Ecology and Organismal Biology (EEOB; [eeob.osu.edu](http://eeob.osu.edu)) in the College of Arts and Sciences at The Ohio State University ([www.osu.edu](http://www.osu.edu)) invites applications for a tenure-track faculty position at the Assistant or Associate Professor level in the general area of Integrative Biology

with a focus on Genotype-to-Phenotype interactions. We seek a scholar who conducts research into proximate and ultimate factors that determine the ecologically and evolutionarily relevant phenotype of an organism. Individuals with research expertise in linking organism's phenotype to its genome, epigenome, and developmental pathways and/or investigating how an organism's phenotype is determined by its interactions with the local environment, are strongly encouraged to apply. The individual hired will enhance current research expertise in EEOB, which includes evolutionary genetics, phylogenetics, evolutionary ecology, and anthropogenic influences on ecological communities. The individual hired will have opportunities to use the holdings at the Museum of Biological Diversity in EEOB. Ongoing research in the College has benefited from recent investments in computational, biological and earth observation infrastructure, providing opportunities to engage in interdisciplinary collaboration with other college and university units such as the Translational Data Analytics Institute, Sustainability Institute, and Byrd Polar and Climate Research Center. The successful candidate will be expected to develop a strong, externally funded research program and contribute to departmental instructional needs at the graduate- and undergraduate-level. They will also be expected to contribute to the university's shared values (see below) through research, teaching, mentoring, and/or outreach and engagement.

### Education and Experience Requirements

Required: Applicants should have a Ph.D. in evolutionary biology, ecology, genetics, or a related field, postdoctoral research experience, evidence of potential to develop a significant research program in integrative biology, a potential for excellence in teaching and mentoring, and a commitment to teaching and mentoring a diverse body of students. Candidates should demonstrate a commitment to building a culturally diverse intellectual community, in line with OSU's Shared Values (see below).

How to Apply Apply to the Careers at Ohio State website at [https://osu.wd1.myworkdayjobs.com/-OSUCareers/job/Columbus-Campus/Assistant-or-Associate-Professor-Integrative-Biology\\_R94351-1](https://osu.wd1.myworkdayjobs.com/-OSUCareers/job/Columbus-Campus/Assistant-or-Associate-Professor-Integrative-Biology_R94351-1)

.A competitive application consists of the following required elements: a cover letter, curriculum vitae, separate research and teaching statements, three letters of reference and a transcript for those who have not yet received a PhD or who received a PhD within the past three years. Review of applications will begin on February 1, 2024. Inquiries may be directed to Marta Jarzyna at [Jarzyna.1@osu.edu](mailto:Jarzyna.1@osu.edu) .

You will be presented with the opportunity to attach

up to FOUR documents in the Application Documents section. Please include the following:

\* Attachment 1: Cover Letter: 1-2 page letter, which should include a brief summary of your academic background, why you are interested in this opportunity, and desired rank. \* Attachment 2: CV (Curriculum Vitae): Detailed overview of your scholarly experience, including your research experience, teaching and mentoring experience, service, funding, and publications. \* Attachment 3: Research Statement: Summary of your past research accomplishments, current work/research, and proposal for your future research plan as a faculty member. \* Attachment 4: Teaching and Mentoring Statement: A statement of your approaches, experience and philosophy regarding your teaching, learning, and mentoring.

Applicants will have to provide names and contact information for three references to provide letters of recommendation with the application materials. Letters of recommendation will be requested at the time of application.

The College With more than 80 majors and 100 minors, the College of Arts and Sciences is the academic heart of the university. The College of Arts and Sciences provides extraordinary opportunities to collaborate across disciplines, blending creativity and analysis to truly be at the forefront of thought. The breadth and depth of knowledge in the college gives students and researchers the critical thinking and adaptability essential for a lifetime of success.

#### Department Information

The Department of Evolution, Ecology and Organismal Biology (EEOB);

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## Okinawa SectionLeader EnvScienceInformatics

Environmental Science and Informatics Section Leader

The OIST Core Facilities contribute to research and education by providing excellent common research facilities and research support services for the researchers and

students at OIST. The Environmental Science and Informatics Section is one of the technical sections within the Core Facilities. It maintains a network of field sites around Okinawa prefecture, supports terrestrial fieldwork related to OIST environmental and ecological research and offers support in the analysis of environmental and ecological data gathered through various means.

Position summary: The Section Leader of the Environmental Science and Informatics (ESI) Section will lead all aspects of the technical and administrative efforts necessary to support terrestrial environmental research conducted at OIST. The section leader will be primarily responsible to manage the daily operations of the ESI Section and to actively engage the OIST research community and the environmental research support community both domestically and internationally.

The successful candidate will employ demonstrated experience in strategic planning, management, and administration to support high-level research and education.

Responsibilities -Managing the Environmental Science and Informatics Section -Together with section members, support terrestrial field environmental research activities at OIST, including obtaining appropriate permission for field sites -Manage data collection, data curation, and data analysis and facilitate the distribution of data products -Oversee safety within the section, including the creation of protocols for emergency situations such as typhoons -Budget planning and execution -Manage and supervise members of the Environmental Science and Informatics Section -Maintenance of excellent records regarding research support, equipment maintenance and safety -In collaboration with relevant sections and vendors, arrange maintenance of all relevant equipment and facilities to ensure continuous operation -Oversee the development of common resources such as specimen collections -Other duties as assigned by the Director of Core Facilities

Building capabilities in OIST -Supports the purchase and procurement of equipment based on the needs of researchers, by documenting the specifications of the equipment and by communicating with the manufacturers and vendors, etc. -Overseeing the creation of standard training programs, manuals and protocols for the efficient training and use of section resources

Contributing to communities -Organization of users groups related to the sections activities -In collaboration with the Provost and Director of Core Facilities, organization of advisory boards for the Environmental Science and Informatics Section -Liaison with local authorities and communities related to environmental and ecological activities -Develop and maintains a network

with international and domestic organizations

#### Qualifications

(Required) Minimum of 10 years relevant experience in ecological research or a related field Experience in managing terrestrial fieldwork Experience in managing and supervising staff Experience in budget management and execution Good collaborative skills relevant to a multi-user environment Good communication and interpersonal skills Excellent communication skills in English. Strong problem-solving skills Ability to establish and maintain effective work relationships

(Preferred) Ability to communicate in Japanese is highly desirable

Compensation and Benefits In accordance with the OIST Employee Compensation Regulations

Benefits: Relocation, housing and commuting allowances Annual paid leave and summer holidays Health insurance (Private School Mutual Aid) Welfare pension insurance (kousei-nenkin) Worker's accident compensation insurance (roudousha-saigai-hoshou-hoken) Access to Child Development Center Access to Schooling Options Language Education Resource Center (Daily Life Support in Okinawa) Submission Documents Cover letter in English required. Japanese version required only for Applicants whose native language is Japanese. Curriculum vitae in English required. Japanese version required only for Applicants whose native language is Japanese. 2 reference letters will be required if the Applicant is selected as a shortlisted candidate.

\* Please be sure to indicate where you first saw the job advertisement. \* Prior to the start of employment all new hires are required to successfully complete a background check. Personal information including employment history and academic background should be submitted to OIST after a conditional offer of employment

dan.l.warren@gmail.com

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## OxfordBrookesU PopulationGenomics

Emerging Leaders Research Fellow 39,347 rising to 42,978 Full Time, Fixed Term - Researcher

This is an exciting opportunity to develop an independent research group through a five-year research Fellowship. We are looking for a driven early-career researcher with a track record in biological sciences. Your research should complement our current portfolio (see <https://www.brookes.ac.uk/bms/research>) but offer opportunities to expand our expertise.

In particular, we are looking for researchers who use and apply -omics technologies and/or microscopy methods to further our understanding of fundamental cellular processes or population structures. We are specifically interested in attracting researchers in the following areas: gene regulation, cellular signaling and communication, sensory systems and neuroscience, protein synthesis and transport, animal conservation and molecular parasitology.

Under this scheme, you will be provided with a 5-year research only post providing long-term, flexible support to develop an independent research career. We provide high-quality professional development and networking opportunities as well as competitive internal pump-priming and research funding and fully funded studentships.

Research in the department is supported by our Centres for Bioimaging and Functional Genomics which house cutting edge equipment. We are part of the Euro-bioimaging network and play an active role in University cross-departmental research networks.

How to apply. Please click the 'apply for job' button below. Submit your application and include cover letter, full academic CV and your 5 year research plan on the template provided detailing your planned route to successfully building an independent research programme.

As one of the largest employers in Oxford we pride ourselves in the great experience we offer our staff. You'll be joining a friendly, professional environment where every member of staff is recognised as important to the success of Oxford Brookes University. To find out more about the benefits of working for Oxford Brookes please visit: [www.brookes.ac.uk/job-vacancies/working-at-brookes](http://www.brookes.ac.uk/job-vacancies/working-at-brookes) . At Oxford Brookes, inclusivity is one of

our five guiding principles: we take positive steps to create an environment in which we celebrate, value and provide equal opportunity to all. We are committed to recruiting from the widest possible pool and welcome applications from all suitably qualified candidates who embrace our values, regardless of their background.

As a Disability Confident Employer, we guarantee to interview any disabled applicant who meets the essential selection criteria.

Interviews are expected to take place in January/February 2024.

[https://my.corehr.com/pls/oburecruit/-erq\\_jobspec\\_details\\_form\\_jobspec?p\\_id=157580](https://my.corehr.com/pls/oburecruit/-erq_jobspec_details_form_jobspec?p_id=157580)

Ravinder Kanda <ravinder.kanda@gmail.com>

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## PennsylvaniaStateU ResTech PlantEvolutionAncientDNA

[https://psu.wd1.myworkdayjobs.com/PSU\\_Staff/job/-Penn-State-University-Park/Research-Technologist-3—Lasky-Lab\\_REQ.0000050846-2](https://psu.wd1.myworkdayjobs.com/PSU_Staff/job/-Penn-State-University-Park/Research-Technologist-3—Lasky-Lab_REQ.0000050846-2) I am recruiting a manager/tech for our plant evolutionary genetics lab, looking for someone interested in learning ancient DNA techniques.

A \*Research Technologist 3\* position is available at The Pennsylvania State University < <http://psu.edu> >, Department of Biology < <http://science.psu.edu/bio> > in the laboratory of Dr. Jesse Lasky < <http://jesserlasky.github.io/laskylab-web/> >, Associate Professor of Biology.

The Lasky Lab is seeking a candidate for a \*Research Technologist\* to develop and manage research projects, ensure quality and cost effectiveness, mentor staff, and author or co-author published documents. This position will manage laboratory, greenhouse, and field operations for the Lasky Lab in research related to environmental adaptation in plants.

Responsibilities include management and execution of workflow to complete research projects using genomics and greenhouse experiments in plants. The position will require leadership in the implementation of organization of field-collected material for plant genetics projects, the use of molecular methods; including an ability to troubleshoot DNA/RNA extraction for plants; preparation

of data summaries and written reports; contributions to the development and maintenance of greenhouse, or growth chamber experiments, and include basic genetic and statistical analyses in a collaborative environment. This position will manage laboratory operations, ensure compliance with safety requirements, contribute to financial management, and participate in broader impacts.

The Lasky Lab uses lab and field experiments, physiology, and genomics to study how environment shapes genetic diversity of plants, with goals of learning about basic biology and informing conservation and agriculture under environmental change.

### Education and Experience

This position typically requires a Bachelor's degree or higher (Master's degree preferred) plus related experience or an equivalent combination of education and experience.

### Additional Information

Include a cover letter that summarizes relevant experience and reasons for interest in the job, along with a CV that includes contact information for three references (name, position title, mailing address, telephone number, and e-mail address).

The Pennsylvania State University is committed to and accountable for advancing diversity, equity, and inclusion in all of its forms. We embrace individual uniqueness, foster a culture of inclusive excellence that supports both broad and specific diversity initiatives, leverage the educational and institutional benefits of diversity, and engage all individuals to help them thrive. We value inclusive excellence as a core strength and an essential element of our public service mission.

Department of Biology Pennsylvania State University

[laskylab.org](http://www.laskylab.org) < <http://www.laskylab.org> >

“Jesse R. Lasky” <jrl35@psu.edu>

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## QueensU ConservationBiology

Director of the Queen's University Biology Station (QUBS) and the Baillie Chair in Conservation Biology

The Department of Biology at Queen's University invites applications for the linked positions of the Director



of the Queen's University Biology Station (QUBS) and the Baillie Family Chair in Conservation Biology, with a focus on avian conservation, evolution, and ecology. This tenure-track appointment will be at the rank of Assistant or Associate Professor in the Department of Biology with a preferred start date of July 1, 2024.

#### Queen's University Biology Station (QUBS)

Queen's is committed to advancing the United Nations' 17 Sustainable Development Goals (SDGs) to guide global action and for this has been recognized in the Times Higher Education Impact Rankings as a leading institution in the world. To contribute to this goal, the Department of Biology and QUBS undertake impactful research and training in biodiversity science & conservation. QUBS is one of the top scientific field stations in Canada, and for almost 80 years has facilitated research and teaching on a growing land base of over 3,400 ha, located just north of Kingston Ontario. QUBS' mandate focuses on teaching and research in ecology, evolution, conservation, and related sciences, and active stewardship to conserve its lands, waters, and biodiversity. The environment at QUBS has high conservation value and includes small lakes, wetlands, shorelines, and habitats ranging from abandoned farmland through rocky barrens to mature second-growth forests. QUBS lies within the Frontenac Forests Important Bird and Biodiversity Area and the Frontenac Arch World Biosphere Reserve with over 30 species at risk making their home on QUBS lands, including the Cerulean Warbler, Wood Thrush, Golden-winged Warbler, Wood Pewee, and Whip-poor-will. The Department of Biology is a dynamic research and training environment with 25 faculty that fosters highly collaborative research in cell and molecular biology, aquatic sciences and fisheries, ecology, evolution and behavior, and conservation biology.

#### The Baillie Family Chair in Conservation Biology

The Baillie Family Chair in Conservation Biology was established with a generous gift from the Baillie family to strengthen research in conservation and biodiversity and to enrich teaching at Queen's. The preferred candidate will have access to research funding associated with the Baillie Chair and will be expected to undertake research in avian conservation biology. We welcome applicants who engage in transformative research, teaching, and land-based learning. Applicants should have a versatile approach to collaboration with colleagues from diverse fields of science, and interest in reconciliation with Indigenous peoples. For both teaching and research, the candidate will have a lab in Biology and office on the main Queen's campus in Kingston and access to facilities at QUBS including a new research and teaching building equipped with molecular, GIS, and aquatics labs; a large

aviary; and a long-term swallow nest box grid. The candidate should have a vision for the importance and role of field stations and contribute to fundraising efforts that support QUBS operations including research support, scholarships for students, funding for stewardship and land acquisition, and outreach.

#### Qualifications

Candidates must have a PhD and multiple years of experience in academic, government, or NGO settings with strong leadership, administrative, and interpersonal skills. The main criteria for selection are academic and teaching excellence in conservation and avian biology, and the desire and passion to help reverse biodiversity decline and inspire others to contribute to conservation. Candidates should provide evidence of scholarly achievements that demonstrate innovative original research, ability to secure external research funding, outstanding teaching contributions at both the undergraduate and graduate levels, and the ability to work collaboratively in a transdisciplinary and student-centered environment. As the incoming Director of QUBS, experience in administration, including program development, human resources, fundraising, networking and community outreach, and collaborative grant writing are important. The successful candidate will embrace and work in partnership with ongoing Indigenous initiatives at QUBS and Queen's. Salary and rank will be commensurate with qualifications and experience.

#### Institution

Queen's University has a long history of scholarship, discovery, and innovation that shapes our collective knowledge and helps address some of the world's most pressing concerns. Home to more than 25,000 students, Queen's offers a comprehensive research-intensive environment. Diverse perspectives and a wealth of experience enrich our students and faculty while a core part of our mission is to engage in international learning and research.

In 2023, for the third year in a row, Queen's University has ranked

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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/evodir.html>

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## SouthwesternOklahomaStateU EvolutionaryBiology

Colleagues,

If you are looking to join a small group of biologists dedicated to providing students with an excellent learning environment to pursue careers in biology, consider applying. We are searching broadly for an organismal biologist. Ecologists and evolutionary biologists would be awesome additions to our department. A summary of the job is provided below. I've also provided a link to the application. If you have any questions, do not hesitate to reach out.

Take care,

Rickey

Rickey Cothran Associate Professor & Chair Depart. of Biological & Biomed. Sciences Southwestern Oklahoma State Univ. <https://rdcothran.wixsite.com/hyalella> We are seeking an organismal biologist committed to excellence in teaching and providing undergraduate students with genuine research opportunities. The candidate will contribute to majors and non-majors introductory courses, service courses, core biology courses and upper-division courses in their specialty. The candidate is expected to engage students in undergraduate research and work with colleagues to integrate research into the biology curriculum. Startup funds and research space are available. The candidate is expected to participate in department and university service. Our department values collegiality and inclusivity as we strive to provide an excellent learning environment for students.

<https://swosu.csod.com/ux/ats/careersite/1/home/-requisition/424?c=swosu> Biologist, Assistant Professor of Biological Sciences - Tenure Track swosu.csod.com

Rickey Cothran Associate Professor & Chair Depart. of Biological & Biomed. Sciences Southwestern Oklahoma State Univ. <https://rdcothran.wixsite.com/hyalella> "Cothran, Rickey" <rickey.cothran@swosu.edu>

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## TexasAMU Galveston Teaching MarineEvoDevo

Position Title: Academic Professional Track (Non-Tenure): Instructional Assistant Professor in Marine Evolution/Developmental Biology

Location Galveston, Texas Position Type Academic Professional Track (Non-Tenure)

Position URL [apply.interfolio.com/136600](http://apply.interfolio.com/136600)

Position Description The Department of Marine Biology at Texas A&M University at Galveston invites applications for a full-time, non-tenure accruing position with a 9-month academic appointment (September 1, 2024 - May 31, 2025); however, the anticipated start date is August 1, 2024, to allow for onboarding, training and class preparation. Applicants will be considered for the faculty title of Instructional Assistant Professor in Marine Evolution and/or Developmental Biology.

"Hala, David" <halad@tamug.edu>

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## TrierU Germany EvolutionaryDataScience

In Faculty VI: Spatial and Environmental Sciences at Trier University, the following temporary civil servant position is to be filled:

W1 Assistant Professorship for Ecological/Evolutionary Data Science (LBesG) (m/f/d)

The successful candidate will represent the area Ecological or Evolutionary Data Science in research and teaching. This Professorship is aimed at junior researchers in an early career phase with an excellent potential for a future academic career.

A research focus in the area of "Biodiversity under Global Change" is currently being established at Trier University. In this context, we are looking for young scientists who have demonstrated expertise in Ecological or Evolutionary Data Science. Desired research areas in-

clude, for example, evolutionary or ecological genomics (e.g., adaptation, phylogenomics, comparative genomics, or biodiversity monitoring), or ecological modeling (e.g., niche modeling, macroecology, trophic interactions or community assembly).

Your tasks include setting up a working group in the above-mentioned research area. In close collaboration with the biological and other natural science subjects of Faculty VI, you will research patterns and drivers of biodiversity change in the face of global change. Your research may concern animals, plants, fungi or microorganisms and terrestrial or aquatic ecosystems. Ideas for future collaboration with the Federal Environmental Specimen Bank (Umweltprobenbank des Bundes; UPB) are expected. Relevant research expertise should be evident in the form of publication and research activity. Skills in programming are desirable.

Teaching is to be completed in biological Bachelors- and Masters degree programs in the Department of Environmental Sciences. The teaching obligation is 4 semester-weekly-hours initially and 6 semester-weekly-hours after an intermediate evaluation. Teaching experience and experience in the acquisition of third-party funding are also desirable.

The requirements of this position are defined by ? 54 Higher Education Act of Rhineland-Palatinate (HochSchG). An outstanding, relevant doctorate is required. In addition, excellent scientific achievements and pedagogical skills must be demonstrated. Following ? 54 HochSchG, junior professorships are filled for a period of six years. An interim evaluation after three years will provide feedback on performance in teaching and research. We refer to ? 50 Abs. 5 Satz 6 HochSchG in this regard. The state of Rhineland-Palatinate and Trier University represent a supervision concept in which a high level of teaching presence at the university location is expected. Trier University is committed to increasing the number of female employees and strongly encourages qualified female scientists to apply. Persons with severe disabilities, or people who qualify according to ? 2 Abs. 3 SGB IX will be given priority if they are suitably qualified (please add proof of status to the application). If the conditions for an employment as a public servant are not met, an employment as a public employee is possible.

Applications with CV, copies of certificates, list of publications, a short outline of current and future planned research projects (max. 2 pages), list of previous courses and, if applicable, teaching evaluations must be sent in digital form (in a single PDF file) by January 31st, 2024, to the Dean of Faculty VI at Trier University: Prof. Thomas Udelhoven, Email: [bewerbungfb6@uni-trier.de](mailto:bewerbungfb6@uni-trier.de).

For information regarding the position, please contact Prof. Henrik Krehenwinkel, Email: [krehenwinkel@uni-trier.de](mailto:krehenwinkel@uni-trier.de). For more information regarding the processing of your personal data, please see the data protection information for application procedures in accordance with Article 13 DSGVO on our homepage.

Prof. Dr. Henrik Krehenwinkel Biogeography Trier University phone: +49-(0)651-2014911 < <http://biogeographie.uni-trier.de> >

<[krehenwinkel@uni-trier.de](mailto:krehenwinkel@uni-trier.de)>

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## UArkansas LabManager DrosophilaGenetics

Full-Time Research Assistant / Laboratory Manager is available in 2024 in the Zhuang Lab, Department of Biological Sciences, University of Arkansas. Research interests in the Zhuang Lab include understanding the genetic basis of complex trait variation and novel trait evolution, involving the genetic architecture of complex diseases, the origination of genetic novelty and diversity, and the underlying molecular mechanisms. Employing molecular evolution, quantitative genetics, genomics, and bioinformatics, the research group conducts studies on both model organisms, such as fruit flies, and non-model organisms, such as polar fishes.

### Job Description

As a lab manager, the candidate will support the laboratory research requirements of the lab, including protocol development, equipment maintenance, supply stock ordering, and basic administrative duties. As a research assistant, the candidate will conduct fruit fly experiments, collect and analyze data, and be responsible for maintaining fly stocks. The candidate will have opportunities to participate in research seminars; attend conferences; collaborate on publications; and supervise undergraduate researchers. The position offers excellent benefits and a friendly working environment. The research assistant will be appointed for a one-year term, with reappointment possible based on performance and funding availability.

### Minimum Requirements

B.S. or M.S. in Biology or related fields.

Experience working in a research lab.

Demonstrated excellence in organization, attention to detail, and keeping thorough and up-to-date records.

Ability to manage several tasks, keeping all on track and organized.

Basic molecular biology lab skills.

Desirable Qualifications (preferred but not required)

Experience being a lab manager or research assistant.

Experience working with fruit fly.

Experience using R for data analysis.

#### Application Information

We invite interested and highly qualified candidates to apply. Please contact Dr. Zhuang (xz036@uark.edu) and email your CV, unofficial transcripts, contact information of three references, and a cover letter describing your experience relevant to the ones listed above. Review of applications will start soon, and the position will remain open until filled. The expected start date for the position is Spring 2024.

#### About the University

Founded in 1871, the University of Arkansas is a land grant institution, classified by the Carnegie Foundation among the nations top 2 percent of universities with the highest level of research activity (R1 University). The University of Arkansas campus is located in Fayetteville, a welcoming community ranked as one of the best places to live in the U.S. The growing region surrounding Fayetteville is home to numerous Fortune 500 companies and one of the nations strongest economies. Northwest Arkansas is also quickly gaining a national reputation for its focus on the arts and overall quality of life. Arkansas is a natural wonder of forests, mountains and lakes framed by picturesque rivers and streams. Some of the best outdoor amenities and most spectacular hiking trails are a short drive from campus.

Xuan Zhuang <xz036@uark.edu>

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### UArkansas ResTech EvolutionaryEcol

University of Arkansas: The Siepielski lab <<https://asiepielski.wordpress.com/>> in the Department of Biological sciences is seeking a research technician as part

of a NSF funded project on climate warming and species coexistence. The selected candidate will be responsible for: assistance with collection of field and lab data, conducting lab-based physiological assays, insect rearing to generate quantitative genetics data, and field work. Training will be provided. The position requires a B.S. (or B.S. by the employment start date), excellent organization and planning skills, and meticulous attention to detail. The ideal candidate will have strong written and oral communication skills, be capable of working independently and as part of a team, and be able to troubleshoot problems. Basic laboratory and data management skills, as well as a valid driver's license are required. This is an ideal position for a recent graduate looking to further their research experience before applying to graduate school. The appointment for this position will be annual, with renewals to four years pending satisfactory performance. Salary will be between \$25,000-30,000/year. Applications will be reviewed immediately and will continue until a suitable candidate is identified. Start date is flexible. Materials required for application: cover letter outlining relevant experience/qualifications, CV, and list of three professional references.

Apply at: [https://uasys.wd5.myworkdayjobs.com/-UASYS/job/Fayetteville/Research-Technician-in-Biological-Sciences\\_R0049323](https://uasys.wd5.myworkdayjobs.com/-UASYS/job/Fayetteville/Research-Technician-in-Biological-Sciences_R0049323) Please contact Adam Siepielski with questions - [amsiepie@uark.edu](mailto:amsiepie@uark.edu)

Adam Michael Siepielski <[amsiepie@uark.edu](mailto:amsiepie@uark.edu)>

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### UBalearicIslands GenomicsLabExpert

\*\*\*\* This is a preliminary announcement ahead of its official publication on 21/12/2023. At <https://investigacio.uib.eu/Contractacio/Convocatories-vigents/> \*\*\*\*

Position: Genomics Laboratory Expert Place: Balearic Biodiversity Centre, University of the Balearic Islands (Palma, Spain) Contract start date: 20 February 2024 Contract end date: 22 April 2025 (The contract may be extended, if the parties so agree, until at least September 2025)

We are looking for a scientific or technical professional in genomics, autonomous, with a high level of initia-

tive, with an open personality and highly qualified (with demonstrated competence in genomics laboratory methods and techniques and solid theoretical knowledge in molecular biology), able to execute and provide excellent services as part of the team of the Genomics Unit of the Balearic Biodiversity Centre at the University of the Balearic Islands.

Tasks: 1) Choose, develop and adapt protocols for sample preparation and analysis in molecular biology. 2) Implement nucleic acid extraction techniques (DNA, RNA, environmental DNA), PCR and preparation of short and long fragment libraries. 3) Commissioning and maintenance of new equipment. 4) Development of protocols for DNA extraction, preparation of short and long fragment libraries, metabarcoding and eDNA. 5) Support for the management of the genomics laboratory, including the purchase of consumables, inventories and related administrative tasks. 6) Elaboration of laboratory protocols. 7) training and supervision of users 8) Outsourcing of services (including management and budgets). 9) Support for CBB participation in international networks such as EBP and ERGA, following their procedures, protocols and standards. 10) Supporting research projects in the fields of genetics and genomics. 11) Implementing and enforcing safety standards.

Minimum requirements: 1) Master's degree in Biology, Biochemistry, Biotechnology or similar (Minimum 3 years of experience in a field related to the call) 2) Demonstrable experience in the use of genetics/genomics for the study of biodiversity. 3) Strong theoretical background or experience in biodiversity and ecology issues 4) Highly developed skills in genomics and understanding of the theoretical basis, demonstrated by publication record, participation in scientific projects or previous work at sequencing facilities 5) Highly developed organisational skills. 6) Proficiency in English or Spanish/Catalan as working languages

In addition, the following strengths will be positively evaluated: 1) Knowledge of NGS protocols (RNA-seq, small RNA-seq, ATAC-seq, Hi-C; amplicon, exome, genomic and metagenomic sequencing). 2) Strong interest in the development and fine-tuning of NGS protocols and applications. 3) Proven knowledge of next generation sequencing (NGS) protocols, preferably of long fragments on Nanopore platforms. 4) Knowledge of computational methods for sequence analysis and interpretation.

The Balearic Biodiversity Centre (CBB) is a group of researchers, technical staff, facilities and equipment whose motivation is the generation of knowledge about the rich natural environment of the archipelago and its biodiversity and the conservation of reference natural history collections and associated data. The CBB consists of

four units, the Genomics Unit, the Natural History Collections Unit, the Data Management Unit and the Training and Outreach Unit. The person recruited will join the Genomics Unit but is expected to contribute to the establishment and development of the CBB as a reference in biodiversity studies, offering multidisciplinary services to the scientific community at regional and national level and being a strong partner in international initiatives. More information about the Centre can be found at [www.centrebaleardebiodiversitat.uib.es](http://www.centrebaleardebiodiversitat.uib.es)

Enrique Arboleda Project Manager Centre Balear de Biodiversitat - Universitat de les Illes Balears Palma, Illes Balears

<https://centrebaleardebiodiversitat.uib.es/> Enrique Arboleda Herrera <enrique.arboleda@uib.es>

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## UCalifornia LosAngeles LabTech ConservationGenomics

The Shaffer Lab at UCLA is recruiting a laboratory technician to work on amphibian genomics projects.

Description: Under the supervision of Dr. Brad Shaffer, the Lab Assistant I will support the laboratory research requirements of the Shaffer lab, including, but not limited to work on the California tiger salamander and the Western spadefoot toad, as well as other lab projects utilizing next generation sequencing approaches in non-model organisms. The position involves processing tissue and DNA extracts for next-generation sequencing (RADseq, sequence capture, and WGS) in a high-throughput research setting. Previous experience in a molecular biology laboratory is required, including experience with PCR-based protocols. The successful candidate will have a demonstrated ability to work with some supervision on large-scale projects that require attention to detail, database management and molecular skills. The Lab Assistant will also be responsible for general lab management, including equipment maintenance, supply stock ordering, and preparation of communal reagents and other lab resources.

Duties: - Extract and quantitate DNA from tissues of diverse taxa - Prepare DNA libraries for next-generation sequencing - Organize tissues, nucleic acid extracts, and other downstream protocol products - Maintain detailed laboratory notebooks and spreadsheets; compile and summarize data - Keep open communication with the

Primary Investigator, lab members, and research collaborators - Contribute to the planning and execution of thoughtful experiments to troubleshoot problematic samples - Maintain molecular biology lab inventory, including ordering supplies and preparing reagents - Maintain and clean lab equipment - Ensure safety compliance

Required Experience: - Experience in DNA isolation, quantitation, and PCR protocols - Competence in common computer programs (e.g., Microsoft Office, Google Sheets, or other word processing and spreadsheet programs) - Demonstrated excellence in organization, attention to detail, and keeping thorough and up-to-date records - Ability to manage several tasks, keeping all on track and organized - Ability to maintain cooperative working relationships in the laboratory - Effective communication skills (verbal and written) - Ability to follow and enforce laboratory safety guidelines

Term: The initial appointment will be for up to one year, with the possibility of extension.

The University of California is an Equal Opportunity/Affirmative Action Employer advancing inclusive excellence. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, protected veteran status, or other protected categories covered by the UC nondiscrimination policy. UC Nondiscrimination & Affirmative Action Policy: <http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct> To apply, please follow this link: <https://hr.mycareer.ucla.edu/applicants/Central?quickFind=89355> Or go to <https://hr.mycareer.ucla.edu> and search for requisition number 40435.

For more information, please contact Erin Toffelmier, [etoff\[at\]ucla\[dot\]edu](mailto:etoff[at]ucla[dot]edu)

Erin Toffelmier <[etoff@ucla.edu](mailto:etoff@ucla.edu)>

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## UCalifornia Riverside DiseaseEcolEvolution

Assistant Professor of Disease Ecology

Job #JPF01846

Candidates should address key topics in the ecology

and evolution of directly transmitted or vector-borne infectious disease in human or wildlife populations.

Evolution, Ecology, and Organismal Biology / College of Natural & Agricultural Sciences / UC Riverside

Position overview

Position title: Assistant Professor

Salary range: \$74,600 - \$97,200 base

Anticipated start: July 1st 2024

Application Window

Open date: November 27, 2023

Next review date: Monday, Jan 22, 2024 at 11:59pm (Pacific Time)

Apply by this date to ensure full consideration by the committee.

Final date: Sunday, Jun 30, 2024 at 11:59pm (Pacific Time)

Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

Position description

The Department of Evolution, Ecology, and Organismal Biology (EEOB) invites applications for a 9-month tenure-track faculty position at the rank of Assistant Professor in the area of Disease Ecology, starting July 1, 2024. Candidates should address key topics in the ecology and evolution of directly transmitted or vector-borne infectious disease in human or wildlife populations, including but not limited to: factors and interactions influencing the transmission of emerging infectious diseases; host movement or behavior as they relate to pathogen transmission; spatial processes influencing disease invasion or persistence; disease dynamics in multi-host or multi-vector systems; population dynamics, genetics and immunology of hosts or reservoir species; links between global change and disease dynamics; feedback between ecological and evolutionary dynamics; or the cultural, social, behavioral, and economic dimensions of pathogen transmission and disease. Approaches to studying the ecological patterns and/or processes of disease can include experimental, theoretical, comparative, behavioral, immunological; ‘microbiological, biogeographic?’ macroecological, and vector- and disturbance-focused perspectives. Candidates proficient in the application of advanced statistical and epidemiological modeling approaches are encouraged.

The successful candidate will join a vibrant community of researchers in the EEOB Department and its graduate

program, as well as across several life sciences programs and a medical school. These include the GGB (Genetics, Genomics, and Bioinformatics), Plant Pathology, Microbiology, and Entomology graduate programs, all of which involve outstanding interdepartmental groups of faculty. Other collaborative research groups on campus include the Center for Conservation Biology, the Institute for Integrative Genome Biology, and the Environmental Dynamics and GeoEcology (EDGE) Institute. The successful candidate will have access to genomics, proteomics, metabolomics, and microscopy cores, a stem cell core facility, a high-performance computing cluster, and the UC Natural Reserve System, an outstanding network of field stations in diverse California ecosystems. Consult <https://eeob.ucr.edu> for further details.

Applicants will be expected to develop a creative, extramurally funded research program. Teaching responsibilities may include participation in existing courses in introductory biology, ecology and evolution, development of new curricula related to disease ecology, and supervision of graduate and undergraduate students.

The UC salary consists of a base pay of \$74,600 - \$97,200 for Assistant Professors and additional off-scale to be commensurate with market value, qualifications and experiences. The off-scale portion of the salary will be maintained as long as satisfactory academic progress is made. Additionally, the off-scale will be maintained subject to market adjustments to the UC salary scale.

Basic qualifications for this position that must be met by the date of application include: demonstrated research experience and excellence in disease ecology or a related area.

Additional qualifications for this position that must be met by the date of hire include: A Ph.D. in biology, ecology, evolution or a related field.

Preferred qualifications for this position include: post-doc experience. The University of California, Riverside is a world-class research university with an exceptionally diverse undergraduate student body. UCR is a member institution of the American Association of Universities (AAU) as well as the Alliance of Hispanic Serving Research Universities (HRSU). Its mission is explicitly linked to providing routes to educational success for underrepresented and first-generation college students. A commitment to this mission is a preferred qualification.

To apply: submit the following to <https://aprecruit.ucr.edu/apply/JPF01846>.

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[mcmaster.ca/~brian/evoldir.html](http://mcmaster.ca/~brian/evoldir.html)

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## UCambridge EvolBiology MuseumDirector

Full Professor in Evolutionary Biology and Ecology and Director of Cambridge University Museum of Zoology

The Board of Electors to the Professorship of Evolutionary Biology and Ecology invites applications for this position, which will be held in conjunction with the Directorship of the University Museum of Zoology. The successful applicant will take up appointment from 1 June 2024, or as soon as possible thereafter, and will hold the Professorship until the retirement age. From the start of their appointment, they will also become Director of the University's Museum of Zoology (UMZC), which is embedded within the Department of Zoology. Their continued tenure of the Museum Directorship will be subject to a formal review five years after the start of their appointment, and further renewal of the Directorship may be possible subsequently.

Full details are here: <https://www.hr.admin.cam.ac.uk/files/evolutionary.pdf> To apply go here: <https://www.jobs.cam.ac.uk/job/44142/> The Museum is an outstanding resource for research, teaching and public engagement. It re-opened in 2018 after significant refurbishment and has roughly two million specimens in its collections, amassed globally over the past two centuries. The Museum attracts over 150,000 visitors each year and shares a building with the Cambridge Conservation Initiative (CCI). The new Director will capitalize on these unique qualities of the Museum in providing effective and engaged leadership. They will continue to develop the Museum's highly successful programme of public engagement, and continue to position the Museum in the wider academic community as a key open resource for multidisciplinary research within Cambridge, nationally and internationally.

The Department of Zoology seeks to appoint a scientist of outstanding calibre. Our new colleague will be recognised internationally for the originality and impact of their research in evolutionary biology or ecology (or both), with the potential for links to conservation biology. The Professor will be based in Cambridge. Standard professorial duties include teaching and research, examining, supervision and administration. As Director of the Museum, the Professor will be expected

to join the Department's Senior Leadership Team. A competitive salary will be offered. The University actively supports equality, diversity and inclusion and encourages applications from all sections of society.

The University has a responsibility to ensure that all employees are eligible to live and work in the UK.

Applications, consisting of a cover letter of application, a statement of current and future research plans (of up to 4 pages), a curriculum vitae and a publications list, along with details of three referees should be made online no later than 22 January 2024. The cover letter should explain how the applicant meets the criteria in the Person Specification (set out in the Further Particulars). It should also describe how the applicant proposes to position the Museum in the wider academic community as a key open resource for multidisciplinary research within Cambridge, nationally and internationally. Informal enquiries may be directed to Prof Rebecca Kilner, Head of the Zoology Department email: HoD@zoo.cam.ac.uk. Please quote reference PF39553 on your application and in any correspondence about this vacancy.

Rebecca Kilner FRS

1866 Professor of Zoology Fellow of Pembroke College  
Head of Department

Department of Zoology Downing Street Cambridge CB2  
3EJ UK

Rebecca Kilner <rmk1002@cam.ac.uk>

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## UCL London Bioinformatician Insect Sensory Evol

JOB: Senior Bioinformatician in Insect Sensory Evolution - London (UCL/NHM)

Location: London (UCL/NHM)

Duration: 2.5 years

Salary: 37,099 + London Weighting(5k p.a.)

We're hiring! Join us as Senior Bioinformatician on a 3 yr NERC: Natural Environment Research Council-funded project on sensory evolution of wasps, involving data from genomes, morphology, comparative analyses. You'll work with a vibrant, inclusive team -

Seirian Sumner and Cintia Oifrom UCL, Gavin Broad-

from NHM London and Eyal Privman from Univ. Haifa.

We're looking for a highly experienced bioinformatician, who's skilled in handling large-scale genomic data, statistics and analyses including gene evolution, gene synteny, gene regulation and exon structure across large datasets of chromosome-level genome sequences. The candidate will also have experience in conducting phylogenetic analyses of trait evolution, an aptitude for the use of machine learning approaches and have an interest in interpreting genomic data within an evolutionary framework.

We particularly encourage applications from candidates who are likely to be underrepresented in UCL's workforce. These include people from Black, Asian and ethnic minority backgrounds; disabled people; LGBTQI+ people and women.

No need to like wasps.. but a curiosity about them might help! #WaspLove

More information and instructions for application here:

<https://www.ucl.ac.uk/work-at-ucl/search-ucl-jobs/details?nPostingId=7806&nPostingTargetId=-18093&id=Q1KFK026203F3VBQBLO8M8M07&LG=-UK&languageSelect=UK&mask=ext> Deadline 18th Dec.

Queries: s.sumner@ucl.ac.uk

Seirian Sumner | Professor of Behavioural Ecology

Centre for Biodiversity and Environment Research  
Dept. Genetics, Evolution and Environment |  
University College London Gower Street | London  
WC1E 6BT (+44) 020 3108 7851 | @WaspWoman  
<http://www.sumnerlab.co.uk/> [www.ucl.ac.uk/cber](http://www.ucl.ac.uk/cber) <http://www.soapboxscience.org/> <http://www.bigwaspsurvey.org/> Book - Endless Forms: The Secret World of Wasps

English: <http://tinyurl.com/UKwasps>; <http://tinyurl.com/USwasps> Dutch: <http://tinyurl.com/NLediton> German: <https://tinyurl.com/WaspsGerman>  
"Sumner, Seirian" <s.sumner@ucl.ac.uk>

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## UColorado MNH CuratorEntomology

Curator of Entomology and Assistant Professor in Ecology & Evolutionary Biology or another appropriate department

The University of Colorado Museum of Natural History seeks applications for a dynamic Curator of Entomology with an outstanding track record of specimen-based and interdisciplinary research for a joint, tenure-track appointment as Curator of Entomology and Assistant Professor. Although Assistant Professor is the anticipated hiring rank, the Associate Professor rank may be considered based on experience and qualifications. The position is rostered in the Museum, with tenure home in the Department of Ecology and Evolutionary Biology or another academic department at CU relevant to the ecology and evolution of insects. Teaching responsibilities will be split between the tenure home department and the Museum & Field Studies Graduate Program in the Museum. It is anticipated that the successful candidate will have research expertise in one or more areas including (but not limited to) insect comparative genomics, cutting-edge systematics, macroevolution, responses to environmental change, and/or ecophysiology. Strong preference will be given to candidates that demonstrate effective, large team cross-disciplinary projects, as evidenced by publications, grants and productive collaborations/partnerships. This research program will build on the Museum's collections and unique strengths in the study of organismal responses to environmental change through time. The successful candidate will take a leadership role in advancing the Museum's entomology collection, will engage with undergraduate and graduate students, and will demonstrate genuine interest in contributing to the Museum & Field Studies Masters and Professional Certificate Program. The Entomology Section houses over 1.4 million specimens, with strengths in Hymenoptera, Lepidoptera, Orthoptera, Hemiptera, and Coleoptera. More information about the Museum and the Entomology Section can be found at: <https://colorado.edu/cumuseum>. Applicants must have a doctoral degree and strong research, curatorial, teaching and mentoring credentials as well as a thoughtful approach to DEI goals. For more details see the full job ad and application portal: <https://jobs.colorado.edu/jobs/JobDetail/?jobId=53360>. Application materials must be submitted electronically,

beginning Dec. 5, 2023. The application package should include a cover letter, curriculum vitae, representative publications, statements of research, teaching, curatorial experience and vision, and diversity and inclusion goals along with names and contact information for three references. Review of applications begins Jan. 8, 2024. Contact: [christy.mccain@colorado.edu](mailto:christy.mccain@colorado.edu). The University of Colorado Boulder is committed to building a culturally diverse community of faculty, staff, and students dedicated to contributing to an inclusive campus environment. We are an Equal Opportunity employer, including veterans and individuals with disabilities.

Sincerely, Christy

Christy McCain McCain Mountain Lab Professor, Ecology & Evolutionary Biology Curator of Vertebrates, CU Museum of Natural History University of Colorado Boulder [christy.mccain@colorado.edu](mailto:christy.mccain@colorado.edu) <http://spot.colorado.edu/~mccainc> Pronouns: she, her, hers

Christy McCain <[Christy.Mccain@colorado.edu](mailto:Christy.Mccain@colorado.edu)>

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## UConnecticut PostbaccalaureateProgramInGenomics

I am thrilled to share information about the UConn RaMP (Research and Mentoring for Postbaccalaureates) Program; a year-long, paid NSF-funded postbaccalaureate research training program based at the University of Connecticut. The purpose of the program is to offer a mentored research experience and professional development opportunities to individuals historically underrepresented in STEM (including underrepresented ethnic groups, people with disabilities, veterans, and first-generation college students) or those who did not have sufficient access to research during their undergraduate careers (college graduates of lower-resourced institutions). RaMP provides an intensive research experience, with salaries comparable to an entry level job.

Scholars will conduct original research under the mentorship a faculty members and graduate student mentor, participate in professional development activities, and expand high demand technical skills in preparation for a diverse array of STEM careers and/or graduate school.

Our website and application information can be found here: <https://genome-postbac.biology.clas.uconn.edu/>.

Applicants are encouraged to visit the website to learn more about the program and review potential research projects/mentors. The application deadline for the 2024 cohort is March 1st.

Feel free to reach out to me at [Teisha.king@uconn.edu](mailto:Teisha.king@uconn.edu) if you have any questions.

Best, Teisha King

Teisha King, PhD RaMP Program Coordinator University of Connecticut Dept of Ecology and Evolutionary Biology Applications for the 2024 cohort are open!!! Apply < <https://etap.nsf.gov/award/617/-opportunity/3466> > today RaMP Website: <https://genome-postbac.biology.clas.uconn.edu/>

## UCopenhagen BiodiversityGenomics

Tenure-track Assistant or Associate Professor in Comparative or Biodiversity Genomics Department of Biology, Faculty of Science

University of Copenhagen, Denmark

The Department of Biology at the University of Copenhagen invites applications for a position as Tenure-track Assistant or Associate Professor in comparative or biodiversity genomics. The position is to be filled by June 1st, 2024, or as soon as possible thereafter, subject to negotiation.

Description of the position The position is aimed at developing and expanding the department's expertise in genomics preferably in a direction that integrates with and strengthens existing research in the department by bridging evolutionary biology or biodiversity with comparative genomics approaches. The selected candidate is expected to take a leading role in the establishment of an externally funded research program within the area.

Another important task will be teaching and supervision of students at the undergraduate, graduate and PhD-levels, with primary course responsibilities within the biology and bioinformatics degree programs. The successful candidate is also expected to disseminate research and scientific results to the public. Finally, the position may include duties requested by the department such as participation in committees and other tasks.

The selected candidate will be embedded in the Section for Computational and RNA Biology (<https://www1.bio.ku.dk/english/research/scarb/>) or the Section for Ecology and Evolution (<https://www1.bio.ku.dk/>

[english/research/ecology-evolution/](https://www1.bio.ku.dk/english/research/ecology-evolution/)), or as a joint hire between the two sections. It is expected that the candidate explores further interdisciplinary collaborations within the department and beyond when such interactions provide clear synergistic benefits.

The Section for Computational and RNA Biology consists of twelve research groups working in the fields of computational biology, population and statistical genetics and RNA biology. The section has state-of-the-art computational infrastructure and laboratory facilities. The Section for Ecology & Evolution (<https://www1.bio.ku.dk/english/research/ecology-evolution/>) consists of ten research groups taking evolutionary approaches to ecology, including animal behaviour, biodiversity genomics, community ecology, conservation, morphology, social evolution and symbiosis. The section has state-of-the-art laboratory facilities.

Qualifications/profile

Applicants should have a strong track record documenting important contributions to any subfield of comparative or biodiversity genomics. The ideal candidate has a background in the application of bioinformatic/computational approaches to comparative or biodiversity genomics research, and development/application of methods for the analysis of genomic data for research into important evolutionary questions. It is expected that the candidate has shown or has the potential to establish a rigorous hypothesis-driven research program.

The department is committed to equality of opportunity and to creating an inclusive working environment that reflects the diversity of society. We highly value a safe, informal, and collaborative working atmosphere, and offer a friendly and thriving international research and working environment with opportunities to build internationally competitive research groups. There are good opportunities available to apply for research funding to establish oneself in Denmark.

Copenhagen is among the 10 most livable cities in the world with a vibrant music, dance and theater culture, world class restaurants, an extensive public transportation system and excellent opportunities for biking in the city. Life for families is made easy by a publicly supported daycare and healthcare system, dual career opportunities, maternity/paternity leave and six weeks of annual vacation.

Terms of employment

The position is open from June 1st, 2024, or as soon as possible thereafter.

The position is covered by the Memorandum on Job

Structure for Academic Staff. Terms of appointment and payment accord to the agreement between the Ministry of Finance and The Danish Confederation of Professional Associations on Academics in the State.

Negotiation for salary supplement is possible.

The University wishes our staff to reflect the diversity of society and thus welcomes applications from all qualified candidates regardless of personal background.

To apply, and for additional information about the position and terms of employment, please visit: <https://employment.ku.dk/all-vacancies/?show=3D160465> Application deadline: 17 December 2023

David Richard Nash <drnash@bio.ku.dk>

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## **UFlorida Two Lepidoptera AssistProf Curator**

The Florida Museum of Natural History at the University of Florida (UF) seeks qualified applicants for a tenure-track Assistant Curator of Lepidoptera at the McGuire Center for Lepidoptera and Biodiversity. Assistant Curator is equivalent to Assistant Professor and is a faculty-rank title at the University of Florida. This is a 12-month and tenure-accruing position.

We seek to hire a creative scholar whose research focus is on butterflies and moths. We anticipate that the successful candidate's research would bolster current strengths of the McGuire Center. We invite candidates who address questions in the field of Lepidoptera research and who would contribute to, and make use of, the Florida Museum's McGuire Center's specimen and digital collection. An ideal candidate will contribute to the museum's goals of understanding, preserving, and interpreting biological and cultural diversity, and conduct research with opportunities for integrative collaborations with other faculty and divisions within the Florida Museum. Candidates using multidisciplinary approaches and making use of the research collections are encouraged to apply.

The McGuire Center for Lepidoptera and Biodiversity, which is part of the Florida Museum of Natural History,

is the world's largest collections-based research and education center focused on butterflies and moths. Its current strengths include evolutionary biology, systematics, and conservation of endangered and threatened species within the United States. This position will expand on the Center's current strengths and we encourage applicants who study research topics which are currently not represented, such as, but not exclusively, global change biology, population biology, ecology, invasive species, and development. The successful applicant will use the vast collections resources of the Center in their research. The collections are taxonomically comprehensive and contain more than 10 million adult specimens, larval collections, genetic tissues, and digital images, which are widely used by an ever-growing global community of students and scientists.

The McGuire Center supports a diverse research community studying Lepidoptera. The Center currently employs three curators, three full-time staff, and more than 20 postdoctoral researchers and graduate students. The Center also brings together a diverse research community studying Lepidoptera through collaborations with other ranges at the Florida Museum of Natural History including the Digital Imaging Division, and with the Florida State Collection of Arthropods at the Division of Plant Industry (DPI), the UF Entomology and Nematology Department, UF Wildlife Ecology and Conservation Department, UF Invasion Science Research Institute (ISRI), and the Institute for Latin American Studies. More information about these resources is available at the webpage of the McGuire Center for Lepidoptera and Biodiversity. Broadly, The Florida Museum enjoys cross-campus collaborations with many of the 16 UF colleges, including those of potential relevance to this new faculty position: Agricultural and Life Sciences (Institute of Food and Agricultural Sciences), Education, Engineering, Libraries, Liberal Arts and Sciences, and Veterinary Medicine. Other campus resources likely of interest to the holder of this position include the UF Genetics Institute, UF Biodiversity Institute, and the Ordway-Swisher Biological Station which is part of National Ecological Observatory Network (NEON).

The Florida Museum of Natural History is the official state museum of Florida and is located on the campus of the University of Florida, the state of Florida's flagship university that is currently ranked No. 6 among the nation's top public research universities by U.S. News and World Report. The Florida Museum's mission includes stewardship of 40 million specimens and artifacts, award-winning exhibitions, diverse public programs, and emerging virtual and digital engagement. The research and collections programs of the Department of Natural History are world class and attract about \$10 million

annually in government and philanthropic support. The Florida Museum is a national and international leader in biodiversity informatics, enhanced by its formative role in iDigBio, the national hub for digitization of natural history specimens.

The Florida Museum, a college-level unit within UF, is a vibrant community of about 300 employees, including 29 full-time faculty, UF undergraduate and graduate students, postdoctoral research associates, and museum collections, education, and administrative support staff. Numerous volunteers and interns participate in research, education, and collection activities. The museum has dedicated labs for digital imaging, molecular genetics and genomics, and preparing skeletal specimens, as well as a new building dedicated to housing fluid-preserved collections.

#### Qualifications

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## UGeorgia TeachingGenetics

We welcome applications from evolutionary/ecological geneticists!

The Department of Genetics at the University of Georgia invites applications for a full-time Lecturer position starting August 1, 2024. The position is a 9-month, full-time instructional appointment with the primary responsibility of teaching three sections of a mid-level genetics and molecular biology course required for Life Science majors.

Candidates should hold a PhD/terminal degree in genetics, cell, molecular biology, or a related field and have at least one year of teaching experience.

Competitive applicants should have a demonstrated interest in developing and teaching genetics courses, a commitment to evidence-based pedagogy, and demonstrate an ability to teach fundamental concepts in Mendelian and molecular genetics, gene regulation, genomics, bioinformatics, and epigenetics. The ideal candidate will bring demonstrated leadership and versatility in genetics instruction that supports learning in all student populations.

The successful candidate will join a vibrant, dynamic, and forward-thinking group of faculty engaged in graduate and undergraduate instruction whose research examines molecular, developmental, and evolutionary genetics topics, as well as bioinformatics and biology education. The University of Georgia is also home to the SEER Center (Scientists Engaged in Education Research), which supports collaborations among scientists and educators across campus to improve undergraduate STEM instruction. Opportunities for professional development are available.

To apply for the position, candidates should submit the following materials to <https://www.ugajobsearch.com/-postings/340683>. - Cover letter indicating suitability for the position. - Curriculum vitae - 1 to 2-page teaching statement/philosophy that addresses how the applicant incorporates the National Academy/AAAS "Vision and Change" core concepts and competencies into their teaching. - UGA enrolls undergraduate and graduate students from highly varied backgrounds and with a wide range of prior experiences. Provide a 1-page statement describing how the candidate will connect with, teach, mentor, and help train this range of students in the classroom and laboratory settings. - Contact information for three professional referees who are prepared to submit letters of recommendation.

Applications received by January 12th, 2024 will receive full consideration. Questions may be addressed to the search committee Chair, Dr. Norris Armstrong ([narmstro@uga.edu](mailto:narmstro@uga.edu)), and the Head of Genetics, Dr. Michael L Arnold ([mlarnold@uga.edu](mailto:mlarnold@uga.edu)).

The University of Georgia, located in Athens, Georgia, is approximately 65 miles northeast of Atlanta. The campus is an hour's driving distance from the North Georgia Mountains and four hours from the Atlantic coast. Georgia is well known for its quality of life with both outdoor and urban activities. Athens enjoys a mild climate and yet still sees the benefits of the changing seasons. It is well known for its vibrant and evolving music scene.

The Franklin College of Arts and Sciences, its many units, and the University of Georgia are committed to sustaining a work and learning environment that is inclusive. The University of Georgia is an Equal Opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, ethnicity, age, genetic information, disability, gender identity, sexual orientation, or protected veteran status. Persons needing accommodations or assistance with the accessibility of materials related to this search are encouraged to contact Central HR ([hrweb@uga.edu](mailto:hrweb@uga.edu)). Please do not contact the

department or search committee with such requests.

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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ing@mcmaster.ca)

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## UKansas LabTech FlyComplexTraits

A research assistant / lab technician position is available in my lab at KU to work on the genetic analysis of complex traits in flies. The position will involve both fly work and molecular biology (e.g., DNA isolation, sequencing library preparation), and might be great for someone interested in gathering more research experience before going to graduate school. Experience with flies would be a plus, but isn't required. The formal announcement, and links to the institutional employment website are provided below. Feel free to email me with any questions. Stuart Macdonald (sjmac@ku.edu)

**Position Overview:** An assistant researcher position is available in the Macdonald lab in the Department of Molecular Biosciences at the University of Kansas (<https://molecularbiosciences.ku.edu/people/-stuart-j-macdonald>). We explore the genetic basis of complex trait variation using the fruit fly *Drosophila* as a model system. The successful candidate will help maintain fly strains and populations of flies, supervise and carry out large-scale phenotyping screens, and perform various molecular biology tasks, including generating next-generation sequencing libraries for various genomics applications. We are looking for an enthusiastic and organized individual who wants to learn new skills, and has excellent oral and written communication skills. Previous research assistants in the Macdonald group have undertaken independent research projects and been authors on research publications from the lab. The position is funded through a multi-year NIH grant and has an anticipated start date of March 4, 2024 (although this is negotiable).

**Job Description:** 50% - Generate, maintain and use *Drosophila* strains/populations for genetic analysis. Examples of the work include stock maintenance, preparing media, carrying out crosses, and assaying

strains/populations for phenotypic variation (e.g., stress tolerance).

30% - Carry out a range of molecular biology procedures. Examples of the work include DNA and RNA isolation, PCR, and next generation sequencing library construction (e.g., for RNAseq or whole-genome sequencing).

10% - Perform general lab tasks, including inventory and ordering of supplies, and working with undergraduate students.

10% - Keep accurate and detailed records. Maintain an up-to-date and accurate lab notebook, keep a detailed digital record of all experimental results, and regularly present data/results to Dr. Macdonald.

**Required Qualifications:** (1) A Bachelor's degree in Biology or a related field. (2) Previous experience with molecular biology techniques (e.g., PCR), as evidenced by application materials. (3) Effective written communications skills as evidenced by application materials.

**Preferred Qualifications:** (1) Experience with *Drosophila* husbandry. (2) Significant laboratory experience, including troubleshooting and optimizing protocols. (3) Experience making next generation sequencing libraries (e.g., RNAseq libraries). (4) Prior experience managing large scientific projects, including managing undergraduate assistants.

**Application:**

For a complete announcement and to apply online, go to [employment.ku.edu/staff/26837BR](http://employment.ku.edu/staff/26837BR)

A complete application includes the following: (1) A cover letter outlining relevant experience and interest in the position, (2) a CV/resume highlighting pertinent experience relative to the required and preferred qualifications, and (3) contact information for three professional references.

Only complete applications will be considered. Informal queries about the position are welcome, and can be directed to Dr. Stuart Macdonald (sjmac@ku.edu, 785-864-5362).

Review of applications will begin on February 2, 2024 and will continue until the position is filled.

The University of Kansas prohibits discrimination on the basis of race, color, ethnicity, religion, sex, national origin, age, ancestry, disability, status as a veteran, sexual orientation, marital status, parental status, gender identity, gender expression, and genetic information in the university's programs and activities. Retaliation is also prohibited by university policy. The following person has been designated to handle inquiries regarding the nondiscrimination policies and is the Title IX

coordinator for all KU and KUMC campuses: Associate Vice Chancellor for Civil Rights and Title IX, civilrights@ku.edu, Room 1082, Dole Human Development Center, 1000 Sunnyside Avenue, Lawrence, KS 66045, 785-864-6414, 711 TTY.

Dr. Stuart J Macdonald he, him, his

University of Kansas (785) 864-5362 sjmac@ku.edu

Professor and Associate Chair Department of Molecular Biosciences 4043 Haworth Hall, 1200 Sunnyside Avenue, Lawrence, KS 66045 molecularbiosciences.ku.edu

Google Scholar: <https://scholar.google.com/citations?user=pTXRo.gAAAAJ&hl=en>

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## UKentucky ArthropodEvolution

Assistant Professor of Arthropod Molecular Biology Department of Entomology, University of Kentucky

Application Deadline: December 31, 2023

Position: Assistant Professor of Arthropod Molecular Biology, twelve-month, tenure-track appointment with an anticipated distribution of effort of research (70%), instruction (25%) and service (5%).

Description: The Department of Entomology at the University of Kentucky invites applicants for a tenure-track faculty position in arthropod molecular biology. We are seeking candidates who use molecular tools to address fundamental questions in biochemistry, pathology, immunology, microbiome interactions, developmental biology, and/or toxicology. We are particularly interested in candidates who use a combination of modern and classical approaches in their work, such as genome editing, RNAi, transgenics, functional genomics (multi-omics, protein structural modeling, etc.), high-throughput analyses, functional characterization of genes, single cell sequencing, electrophysiology, and cell culture. The successful applicant will develop an internationally recognized and extramurally funded research program that incorporates MS and PhD students and undergraduate researchers. Enthusiasm for interdisciplinary collaboration is particularly encouraged. The anticipated

teaching load will be two courses per year in the interdisciplinary Agricultural and Medical Biotechnology (AMBT) program and/or the Entomology program. Relevant courses could include molecular genetics, insect toxicology, molecular biology techniques, and/or a course in the candidate's area of expertise. Our new colleague is expected to contribute to institutional service and the missions of the Martin-Gatton College of Agriculture, Food and Environment.

Qualifications: The successful applicant must have a Ph.D. in Entomology, Biology, or a related field with experience in molecular biology research. Experience seeking external funding and teaching at the college-level, and excellent oral and written communication skills are preferred qualifications.

Salary and Benefits: Salary is commensurate with training and experience; an overview of benefits is available at [www.uky.edu/HR/benefits](http://www.uky.edu/HR/benefits). Application Procedure: Applications must be submitted electronically via the University of Kentucky website here: <https://ukjobs.uky.edu/postings/493800>. Applicants should submit the following: 1) a CV; 2) an application cover letter describing background and expertise specifically related to this position at the University of Kentucky; 3) a statement of research interests (2-3 pages); 4) a statement of teaching interests (2-3 pages) (research and teaching statements should be combined and uploaded under Specific Request 1); 5) a statement of diversity indicating how your previous experiences have prepared you to contribute to an inclusive institutional culture (1 page; upload under Specific Request 2); and 6) up to five selected reprints (upload under Specific Request 3)

Please also include the names and addresses of four individuals who may be contacted for letters of reference when prompted in the application process.

Application Deadline: December 31, 2023 or until a suitable candidate is identified

Date Position is Available: July 1, 2024 or as mutually agreed upon

Contact: Dr. Julian Dupuis ([julian.dupuis@uky.edu](mailto:julian.dupuis@uky.edu)) Chair, Search Committee.

The Martin-Gatton College of Agriculture, Food and Environment (MG-CAFE) is fulfilling the land-grant promise of educational excellence, civic leadership, transformational research, and shared knowledge serving the common good. We serve the people of the Commonwealth and across the world through education, outreach, service, and research by finding solutions to improve lives today and create a sustainable future. We integrate teaching, research, and extension in our work. We recruit, retain, and graduate students who are competent,

responsible, and workforce ready. For more than 130 years, MG-CAFE has provided research results to the community. From traditional labs and research farms to high-tech diagnostic and research centers, we offer science-based, practical solutions that affect the everyday lives of Kentuckians and people around the world. Our Cooperative Extension programs are engaged in Kentucky's 120 counties, identifying and addressing needs not only in agriculture and natural resources, but also 4-H and youth development, family and consumer sciences, as well as community & economic development. We create a welcoming and inclusive environment that allows our faculty, staff, and students to reach their highest potential. We recognize people with diverse backgrounds and experiences are essential to decision making, problem solving, and innovation each and every day.

The University of Kentucky is a university with approximately

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## ULyon BiodiversityDynamics

Hello,

A position of Full Professor is likely to open up in the “Biométrie et Biologie Evolutive” Lab (UMR CNRS 5558) in 2024. If you're interested, we strongly invite you to contact us as soon as possible to initiate discussion ([fabrice.vavre@univ-lyon1.fr](mailto:fabrice.vavre@univ-lyon1.fr)).

CONTEXT :

The LBBE is a laboratory affiliated to the University of Lyon 1, the CNRS Ecologie & Environnement and VetAgro Sup, and in partnership with INRIA and the Hospices Civils de Lyon. The LBBE is developing research based on 3 pillars: (i) biometrics, with methodological developments in statistics, computing and mathematics for modelling life; (ii) ecology and evolution, from the molecular and genomic scale to that of populations and communities; (iii) health, by developing precision medicine and evidence-based medicine. The specificity of the laboratory stems from the synergy between methodological questions and developments and

issues in ecology, evolution and health, in order to develop a project on the health, dynamics and evolution of living organisms at all scales.

As part of a rich scientific context in the Lyon area, the laboratory benefits from major experimental and computing infrastructures, both its own and shared within the BioEEnViS FR. Lyon's cultural and gastronomic environment, as well as its relative proximity to the mountains and the sea, also provides a very pleasant living environment!

RESEARCH:

Understanding the dynamics of biodiversity raises questions that require studies carried out at different scales of organization level, time and space. The person recruited will reinforce these themes, which are currently being particularly developed within the 'Evolutionary Ecology' and 'Genetics and Evolution of Interactions' departments of the host laboratory. The person recruited will develop work in one or more fields of ecology and evolution (e.g. population dynamics, genetics and/or genomics; ecology and evolution of interactions and communities; conservation biology; One Health; ecotoxicology; urban ecology). The work may be based on biological models and a variety of approaches (e.g. genomics, experimentation, longitudinal field monitoring, participatory science, modelling).

TEACHING :

The person recruited will be involved in the teachings run by the LBBE at both undergraduate and postgraduate levels. Most of his or her time will be devoted to teaching evolutionary ecology and/or evolutionary biology (masters BEE, Bioinformatics, One Health, etc.), depending on the research profile. The other teaching will be in courses related to methodology in mathematics, statistics and informatics for biologists in undergraduate courses (e.g. UE MathSv), for which there is a strong need. The person recruited as a University Professor is expected to take on teaching responsibilities and, in the mid-term, to be a driving force for the creation of innovative teaching programmes that will be part of the teaching projects coordinated by the host laboratory (SFRI Biodiversité- Bioressources, SFRI Digitbiomed, EUR EID@Lyon).

Fabrice Vavre Directeur du LBBE Laboratoire de Biométrie et Biologie Evolutive UMR CNRS 5558 - Bat. G. Mendel Université Claude Bernard - LYON1 16, rue Raphael DUBOIS 69622 VILLEURBANNE Cedex - FRANCE Tel: 04 72 43 19 21 Fax: 04 72 43 13 88 Mel:[fabrice.vavre@univ-lyon1.fr](mailto:fabrice.vavre@univ-lyon1.fr)

VAVRE FABRICE <[Fabrice.Vavre@univ-lyon1.fr](mailto:Fabrice.Vavre@univ-lyon1.fr)>

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## USouthAlabama TeachingEvolution

The Department of Biology at the University of South Alabama seeks applications for a full-time (12-month), non-tenure-track Instructor position, beginning August 15, 2024.

An earned M.S. or Ph.D. in Biology or a closely related field is required. Duties include lecturing, laboratory coordination, and laboratory instruction for General Biology for Majors or Non-Majors. There are also opportunities to teach/develop upper-division courses. The successful candidate will be committed to employing evidence-based practices in teaching and demonstrate an understanding of the needs of a student population in great diversity in age, cultural background, ethnicity, primary language, and academic preparation through inclusive course materials and teaching strategies. Prior college teaching experience as instructor of record is preferred. For more information about the Department of Biology at the University of South Alabama, please visit the following link: <https://www.southalabama.edu/colleges/artsandsci/biology/>. To apply: Send by email in a single PDF document the following: (1) letter of interest, (2) current curriculum vita, (3) teaching philosophy, (4) unofficial transcripts, and (5) names of three references to Jackie Howell at [jackiehowell@southalabama.edu](mailto:jackiehowell@southalabama.edu). We will only reach out to references if you pass the initial review stage.

The successful applicant will ultimately need to arrange to have all official graduate and undergraduate transcripts sent directly by the Registrars of all colleges attended to the University of South Alabama. Review of applications will begin January 22, 2024, and continue until the position is filled.

The University of South Alabama is an EO/AA employer and does not discriminate on the basis of race, color, national origin, sex, pregnancy, sexual orientation, gender identity, gender expression, religion, age, genetic information, disability, protected veteran status or any other applicable legally protected basis.

Jason Strickland, Ph.D. (He/Him/His) Interim Assistant Chair and Assistant Professor, Department of Biology Adjunct Assistant Professor, Department of Microbiology and Immunology University of South Alabama

Earth and Life Sciences Building Room 222 (ELSB 222) 5871 USA Dr. N Mobile, AL 36688 Office: 251-460-7310 @sssting\_lab <[https://www.instagram.com/sssting\\_lab/](https://www.instagram.com/sssting_lab/)> on Instagram @SSSTING\_Lab <[https://twitter.com/SSSTING\\_Lab](https://twitter.com/SSSTING_Lab)> on Twitter

Jason Strickland <[jasonstrickland@southalabama.edu](mailto:jasonstrickland@southalabama.edu)>

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## USouthCarolina EvolutionaryBiology

Bridge to Faculty Fellow

As part of the new Bridge to Faculty program at the University of South Carolina, the Department of Biological Sciences seeks a faculty fellow investigating fundamental concepts in Biology to begin in Fall 2024. This two-year program is intended to lead to a tenure-track position in the Department. Areas of strength in the Department include Ecology, Evolution, Marine Biology, Plant Biology, Cell Stress, Cancer, Developmental Biology, and Neuroscience. We seek applicants who will contribute to one or more of these areas, and who will benefit from mentorship by one or more of our current faculty members.

The Bridge to Faculty Fellow will be expected to: (1) establish an independent program of research in Biology with the support of faculty mentors, including submission of grant proposals to funding agencies as eligible; (2) meet regularly with faculty mentors; (3) participate in professional development opportunities; and (4) participate in the intellectual life of the Department and the University. The Fellow will also have the option to teach one class in the second year.

This is a 12-month research faculty appointment that will begin August 16, 2024. Upon demonstration of academic productivity, it will be renewed for a second year, and with evidence of continued productivity, it may be converted to a tenure-track faculty position in the third year. Salary is competitive, and the position includes a generous benefits package with access to medical, vision, dental, and life insurance. A small research fund will be included in the hiring package.

The Department of Biological Sciences ([https://sc.edu/study/colleges\\_schools/artsandsciences/biological\\_sciences/](https://sc.edu/study/colleges_schools/artsandsciences/biological_sciences/)) is a multidisciplinary unit of



approximately 1,800 undergraduate students, 75 graduate students, 21 professional-track faculty, and 34 tenure-track faculty members. The Department has ready access to excellent core technical support facilities and is complemented by strong research programs in other science departments, the USC School of Medicine, the Arnold School of Public Health, and the School of Pharmacy. The Department of Biological Sciences strives to cultivate an inclusive environment that is open, welcoming, and supportive of individuals of all backgrounds. We recognize diversity in our workforce is essential to providing academic excellence and critical to our sustainability. The Department and University are committed to eliminating barriers created by institutional discrimination through accountability and continuous process improvement. We celebrate the diverse voices, perspectives, and experiences of our employees.

Applicants may apply online at USCJobs at <https://uscjobs.sc.edu/postings/159305>. Applicants must be US citizens or permanent residents. Applications should include: 1) a cover letter that briefly describes the applicant's area of expertise and lists potential mentors in the Department of Biological Sciences, 2) a curriculum vitae, 3) academic transcripts (showing completion of PhD by August 15, 2024 or, lacking that, a letter from the applicant's dissertation director confirming that the PhD will be completed by August 15, 2024), 4) a statement of research interests (2-3 pages), and 5) the names and email addresses of three references, who will be prompted to submit letters of recommendation directly. For full consideration, application material must be received by February 28, 2024. If you have questions about the position or the application process, please contact Dr. Daniel Speiser, Search Committee Chair ([speiser@mailbox.sc.edu](mailto:speiser@mailbox.sc.edu)).

BRIAN.HOLLIS@sc.edu

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## UtahStateU Bioinformatics BeeGenomeEvolution

### Bioinformatics Data Scientist

The Beenome100 Project is an exciting new initiative to provide over 100 reference-quality genome assemblies, annotations and post-annotation resources for bee species representing each of the major taxonomic groups

in the United States. We are seeking a bioinformatics data wrangler to provide post-annotation resources for the Beenome100 Project, in collaboration with the i5k Workspace@NAL project (<https://i5k.nal.usda.gov/>). The incumbent will add capacity to both projects to 1) generate new shared datasets for the project, to be displayed and disseminated at the i5k Workspace@NAL (e.g. population genomic tracks, protein alignments from related species, etc); 2) manually review, and if needed, update gene predictions relevant to social evolution or other target fields of the Beenome100 project; and 3) if desired, author peer-reviewed publication(s) or conference presentation(s) on topics relevant to the project. The person in this position will be employed by Utah State University under the supervision of Dr. Karen Kapheim, but will work closely with the i5k Workspace @NAL in collaboration with Dr. Monica Poelchau. The incumbent will also be an integral member of the Beenome 100 Project. The Kapheim Lab is a collaborative group of scientists who are committed to cultivating equity, diversity, and inclusion in academia while promoting professional, scientific, and personal growth for every member of our team. More information, including our Code of Conduct and mentoring policies can be found on the lab website ([www.kapheimlab.com](http://www.kapheimlab.com)). This position is telework eligible, but relocation funds are available for those interested in relocating to Logan, a city of ~55,000 people in a beautiful mountain valley with outstanding access to outdoor recreation.

Informal inquiries can be directed to Dr. Karen Kapheim ([karen.kapheim@usu.edu](mailto:karen.kapheim@usu.edu)), but applications will need to be submitted through the USU hiring portal using this link: <https://careers-usu.icims.com/jobs/-7242/bioinformatics-data-scientist/job>. Please include a cover letter describing your interest in the position and qualifications, CV, and contact information for three references. Preferred start date is Spring 2024 with an initial 1-year term renewable upon satisfactory performance. Starting salary is a minimum of \$70,000; commensurate with experience, plus excellent benefits. Review of applications will begin January 2, 2024, and continue until the position is filled.

### Responsibilities

- Develop and/or maintain workflows and workflow documentation for generating datasets relevant to Beenome100 project needs (e.g. population genomic tracks, protein alignments from related species, etc); [45%]
- Use workflows to generate datasets and load them into the i5k workspace@NAL; [30%]
- Manually curate genes and gene families identified by the Beenome100 community as high priority in the

Apollo software; [10%]

- Contribute to preparation of reports, publications, and presentations related to your work; [10%]

- Actively participate in regular Beenome100 and i5k Workspace project meetings. [5%]

#### Minimum Qualifications

- Ph.D. in biological sciences or related field; or Master's degree in biological sciences or related field AND 4 years' related experience;

- Demonstrated bioinformatics programming skills (using e.g. Python, perl, R);

- Experience with unix or linux command line;

- Strong written and oral English communication skills;

- Ability to work both independently and as part of a team.

#### Preferred Qualifications

- 2+ years (Ph.D.) or 6+ years (Masters') of post-degree experience in bioinformatics programming;

- Research experience in insect molecular biology or insect evolutionary biology;

- Experience in manual gene curation;

- Experience with workflow languages (e.g. common workflow language, nextflow, snakemake, or other);

- Experience with software project management tools and version control systems (e.g., Git/GitHub, Jira, Confluence)

Karen M. Kapheim Associate Professor Department of Biology Utah State University [www.kapheimlab.com](http://www.kapheimlab.com) she/her

Karen Kapheim <karen.kapheim@usu.edu>

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## Vienna LabTech WildlifeGenetics

Dear colleagues,

Our Research Institute for Wildlife Ecology, Department of Interdisciplinary Life Sciences (Vetmeduni Vienna, Austria) has an open position for a permanent scientific technical assistant in the field of wildlife physiology and genetics. The application deadline is 13.12.2023 and we very much look forward to receive your application.

Laboratory technician/scientific assistant in the field of wildlife physiology and genetics

Grade: IIIb

Level of employment: 40 hours per week

Duration of contract: unlimited

Deadline for applications: 13.12.2023.00.0000

Reference number: 2023/0371

Working place: Research Institute of Wildlife Ecology, Savoyenstraße 1, 1160 Vienna

#### Responsibilities and tasks

Support of wildlife scientific research applying molecular genetics and physiology techniques

§Conducting biochemical experiments and genetic analyses of biological substances (blood, feces, hair, tissue and forensic material)

§Sample preparation, homogenization and extraction of DNA, RNA and proteins from tissues, saliva, hair

§Implementation of molecular biological working methods (e.g. various PCR techniques, NGS library preparation)

§Determination and evaluation of physiological and biochemical working methods (e.g. ELISA)

§Supporting scientists in research projects using molecular biological and biochemical working methods

§Organization of everyday laboratory work (orders, equipment, calibrations) and compliance with good laboratory practice

§Preparation of laboratory protocols, performance and documentation of measurements

§Assistance with data management (e.g. data entry in Excel)

Necessary education, qualifications and knowledge

§Completed Bachelor's degree in biomedicine, biotechnology, molecular biology or equivalent, or specialized baccalaureate in chemistry (HTL- Rosensteingasse, Wieselburg, Wels or equivalent educational institutions) and corresponding professional experience in research or school-leaving examination and training as an MTA or BTA

§Knowledge of biochemistry and molecular biology

§Very good IT skills (MS Word, Excel)

§Average knowledge of German (B1)

§Good knowledge of English (B2)

Desirable qualifications and skills

§Experience with molecular biological working methods, in particular PCR, real-time PCR, DNA sequencing, cDNA and NGS library preparation and ideally also in microsatellite DNA typing. Experience with basic physiological working methods such as ELISA, Western blot, spectrophotometers Experience in bioinformatics and handling gene expression data Good communication and organizational skills

We offer

§Top university: the Vetmeduni is one of the leading academic institutions in Europe to offer education in and undertake research on veterinary medicine

§Stable employer

§Attractive campus

§Opportunities for further training, both personal and in connection with your career

§Preventive and medical health care

§Diversity- and family-friendly culture

§Childcare facilities, both in term time and during holidays

§Many attractive fringe benefits

§Staff events

Minimum salary

The minimum salaries at universities are governed by a collective bargaining agreement. At the level given above, the minimum salary amounts to EUR 2.709,6 gross per month (based on full-time employment).

Applications

We shall be happy to receive your application (including

CV, motivation letter and certificates), quoting reference number 2023/0371, by e-mail to [bewerbungen@vetmeduni.ac.at](mailto:bewerbungen@vetmeduni.ac.at). Please do not forget to include the reference number, or we shall not be able to assign your application to the correct position.

In accordance with § 41 of the 2002 Universities Act, the Vetmeduni is striving to increase the proportion of female staff members, particularly in leadership positions, and to achieve a balanced ratio of men and women on its staff, especially the scientific staff, and would thus welcome applications from qualified females. If women are underrepresented (below 50%), female candidates who are as well qualified as the most appropriate male candidates will be given preference, provided that there is no reason to prefer a particular male candidate.

There is no cost for applying for the position. However, candidates have no rights to reimbursement of any travel and accommodation costs that may arise in connection with their applications.

The Vetmeduni is proud to hold the certificate "hochschuleundfamilie" (university and family) and thus welcomes applications from people with families. We also welcome applications from persons with disabilities.

Further information

Ass.-Prof. Dr. Alba Hykollari

+43 1 25077 - 7120

[alba.hykollari@vetmeduni.ac.at](mailto:alba.hykollari@vetmeduni.ac.at)

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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/evodir.html>

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## ASN awards CallForNominations

ASN seeks nominations (including self-nominations) for two of our awards, the Distinguished Achievement in the Conceptual Unification of the Biological Sciences and the Distinguished Naturalist awards. Nominations are due by 31 December and consist of a brief statement of suitability for the award, a curriculum vitae, and names and email addresses of three current and/or former trainees of the nominee. To nominate yourself or others please use the form at <https://tinyurl.com/-ASNnominations>; you can also contact President-elect Jeff Conner ([connerj@msu.edu](mailto:connerj@msu.edu)) with questions or nominations. We also invite applications for the ASN Early Career Investigator Awards, due 30 January 2024; application information at <https://tinyurl.com/ASN-ECapp>. Information about these and other ASN awards is at <https://www.amnat.org/awards.html>. We are committed to increasing the diversity of our awardees.

“Conner, Jeffrey” <[connerj@msu.edu](mailto:connerj@msu.edu)>

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## ESEB JointCongressTravelAward,DeadlineJan31

\*ESEB Joint Congress Travel Award\*

These stipends are for Masters students, PhD students, and Postdocs who are professionally based in Europe to attend the 3rd Joint Congress on Evolutionary Biology of ASN/ESEB/SSB/SSE in Montreal, Canada on July 26-30, 2024. Successful applicants will be chosen by lottery and receive a stipend of 750 Euros, which can be used to cover travel, lodging, or early bird conference registration fees. The funds will be paid out as a reimbursement after the congress. All applicants will be notified by the beginning of March 2024 (i.e. ahead of the early bird registration deadline of May 1, 2024).

Please note that this is distinct from the ESEB Conference Travel Award, which is for students and young scientists who are professionally based in countries with a low GDP, and from the ESEB Congress Attendance Aid Grant, which is designed to promote the attendance

of under-represented groups and to help with the additional costs of meeting attendance due to responsibilities for caring for dependents when attending the meeting and NOT for the costs of the applicant to attend the meeting.

DEADLINE: January 31st, 2024

Eligibility:

———— Applicants must be ESEB members before the deadline (for becoming an ESEB member, please visit <https://eseb.org/society/eseb-membership/>). ——— Applications can be submitted by Masters students, PhD students, or Postdocs who are professionally based in Europe. ——— People who received an ESEB travel stipend in the last five years are not eligible. ——— Applicants must apply to present either an oral communication or a poster to be eligible for the stipend. Presentation of a talk or a poster will be verified before the reimbursement, but no proof that a poster or talk is accepted is necessary at the application stage. However, please note that being chosen for a travel award does not guarantee acceptance of a poster or talk at the conference.

How to apply:

The link to the application form is available at <https://eseb.org/prizes-funding/joint-congress-travel-award/>  
Kind regards, Dr. Ute Friedrich ESEB Office Manager  
Email: [office@eseb.org](mailto:office@eseb.org)

ESEB Office <[office@eseb.org](mailto:office@eseb.org)>

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## Euro EvoDevo TravelScholarship

Dear Evo Devo researchers,

At the European Society for Evolutionary Developmental Biology we are strongly committed to the values of diversity, equality and inclusion. Our mission is to make science a more inclusive, engaged and equitable place, ensuring that we have different perspectives to create a better environment where everyone feels welcome.

Therefore, at this year’s EED meeting( <https://www.helsinki.fi/en/conferences/euroevodevo-2024>), we would like to offer a limited number of full scholarships (travel to the conference, accommodation and conference fee cover) to students from low and middle income

countries. To be eligible for the scholarship, you must be based at a research institution in a research4Life Group A or Group B country (see list here: <https://www.research4life.org/access/eligibility/>). We invite eligible applicants to apply in order to present their work at the meeting, to network with scientists from around the world, and to have their work recognized by their peers. Individuals from disadvantaged groups and early career researchers are especially encouraged to apply for this fellowship program.

Fellowships will be awarded by a selection committee to eligible students who meet a set of criteria (country of research organisation, career stage, justification, and scientific abstract). Successful awardees will be notified before the Euro Evo Devo abstract submission deadline, so that a registration to the conference is not required until a decision has been made on the scholarships.

Please apply via this Google form by January 10, 2024: <https://forms.gle/jH1HtBjFFB2sDkoy9> Best wishes, Rainer Melzer (secretary) on behalf of the EED executive committee and local organizing committee

EED Society <eed.soc@gmail.com>

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## Finland Internship Invertebrate Identification

Hello,

I am associate professor at the university of Angers in France, currently on a research leave at the Lammi biological station, university of Helsinki, in Finland.

I am searching for 1 or 2 students, as soon as possible, to identify terrestrial invertebrates collected in summer 2023 in vernal pools. Internship for 4 to 8 months. Accommodation is free in a shared room (2 beds), with kitchen and bathroom shared. Everything is very clean. Nice atmosphere at the station. No salary. Co-authorship secured for the students.

A CV and a motivation letter must be sent to [aurelie.davranche@helsinki.fi](mailto:aurelie.davranche@helsinki.fi)

Best regards,

Aurélie Davranche.

<https://www.helsinki.fi/en/research-stations/lammi-biological-station/about-station/international->

[https://x.com/audavranche?s=21&t=qTnMbE5ZeL9wISA\\_YLJ5PA](https://x.com/audavranche?s=21&t=qTnMbE5ZeL9wISA_YLJ5PA) <https://sites.utu.fi/pool/> “Davranche, Aurelie” <aurelie.davranche@helsinki.fi>

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## LouisianaStateU PostbaccTrainingProgram Mar3

Join the Louisiana Graduate Network in Applied Evolution (LAGNiAppE)!

Applications are now open for our research training program designed for recent college graduates passionate about exploring and honing their research skills in evolutionary biology.

The year-long program, funded by NSF and offering paid opportunities, enables scholars to conduct original research under the guidance of two faculty members from LSU and partner universities. Participants will engage in professional development activities and acquire sought-after technical skills essential for a wide range of STEM careers. LAGNiAppE actively encourages applicants without extensive research backgrounds, especially those from underrepresented communities.

For detailed information and the application link, please visit our website: <https://lsu.edu/science/biosci/-programs/postbacc-research/index.php>. The application deadline for the upcoming cohort is March 3, 2024.

Should you have any further inquiries, feel free to reach out to us at [evo.lagniappe@lsu.edu](mailto:evo.lagniappe@lsu.edu).

[evo.lagniappe@lsu.edu](mailto:evo.lagniappe@lsu.edu)

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## NaturalHistory SmallFieldworkGrants

The Percy Sladen Memorial Fund is a charity associated with the Linnean Society of London that offers small travel & subsistence grants (up to 2000)

for fieldwork in Natural History (anthropology, archaeology, botany, geology, palaeontology and zoology). There are two application deadlines per year: 30th January and 30th September. Prospective applicants should email the fund's secretary, Elizabeth Rollinson, erollinson13@gmail.com for an application form in good time before a deadline. With regret, the fund does not support conference attendance, visits to institutions, training or student studies that are part of student projects (undergrad, masters or PhD). Further information can be found here: Percy Sladen Memorial Fund Grants | The Linnean Society .

\*\*

Prof JM Pemberton Institute of Ecology and Evolution  
School of Biological Sciences University of Edinburgh  
EH9 3FL

0131 650 5505

The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. Is e buidheann carthannais a th' ann an Oilthigh Dh'Àrd-Àideann, clàraichte an Alba, àireamh clàraidh SC005336.

Josephine Pemberton <J.Pemberton@ed.ac.uk>

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## Software Myriads

Dear evoldir members,

A new version of the Myriads software (1.3) for multiple hypothesis testing along with the program manual < [https://myriads.webs.uvigo.es/-Myriads\\_v1.3.Manual.pdf](https://myriads.webs.uvigo.es/-Myriads_v1.3.Manual.pdf) > is available on the website <https://myriads.webs.uvigo.es/> . This version incorporates minor changes compared to the previous version. 1) Now the output file names do not always have the default name. 2) The menu option to rename the input file now returns to the menu if the user enters an incorrect name.

The Myriads software is developed under the C +11 language and is available as a binary executable for Windows and Ubuntu platforms. Source files are also provided along with a makefile to compile on Linux and macOS.

For questions about this software please contact me at [myriads@uvigo.es](mailto:myriads@uvigo.es) or at [acraaj@uvigo.es](mailto:acraaj@uvigo.es).

best wishes and merry christmas,

Antonio

Antonio Carvajal Rodríguez Profesor Titular de Genética Universidad de Vigo email: [acraaj@uvigo.es](mailto:acraaj@uvigo.es) web: <http://webs.uvigo.es/acraaj/> Antonio Carvajal Rodríguez <[acraaj@uvigo.es](mailto:acraaj@uvigo.es)>

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## SSE

### MasterPhDStudentResearchGrants

The Society for the Study of Evolution is now accepting applications for the 2024 R. C. Lewontin Early Awards. These grants offer up to \$2,500 USD in research funding to assist early graduate students. This year, 1st year Master's students as well as 1st and 2nd year PhD students are eligible. These grants are part of the SSE Graduate Research Excellence Grants. < <https://www.evolutionarysociety.org/content/society-awards-and-prizes/graduate-research-excellence-grants.html> >

See full details on our website: <https://www.evolutionarysociety.org/content/society-awards-and-prizes/graduate-research-excellence-grants/rc-lewontin-early-award.html> Deadline: February 23, 2024

\*Kati Moore\*she/her \*Communications Manager\* \*Society for the Study of Evolution\* [communications@evolutionarysociety.org](mailto:communications@evolutionarysociety.org) [www.evolutionarysociety.org](http://www.evolutionarysociety.org) SSE Communications <[communications@evolutionarysociety.org](mailto:communications@evolutionarysociety.org)>

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## Teaching Evolution InTheAmazon

Recruiting Guest Faculty for the 2024 Amazon Research Initiative for Educators

Are you a passionate researcher in the fields of ecology, evolution, or behavior? Do you have a strong desire to

inspire and guide K-12 teachers on their scientific journeys? The Amazon Research Initiative for Educators (ARIE) invites you to join our 2024 team as a guest faculty member in the breathtaking Peruvian Amazon rainforest. We're seeking individuals who will not only contribute to scientific mentoring of K-12 science teachers but also may be interested in becoming a valued member contributing to our long-term mission.

The Amazon Research Initiative for Educators (ARIE) is a professional development research experience tailored for elementary, middle, and high school teachers held in the amazingly biodiverse Peruvian Amazon. ARIE is hosted by the Morpho Institute, a 501(c)3 nonprofit organization centered on Amazon conservation through education. K-12 teachers participating in ARIE contribute to Morpho's ongoing research projects, gaining insights into key scientific methodologies, and can conduct their own independent inquiries with guidance from our scientific team. Resulting data are available for K-12 classroom exploration, and classroom connections are an important part of the teachers' research experience. Working closely with Morpho Institute faculty, teachers delve into research questions to provide a unique opportunity to bridge the gap between inquiry and K-12 classroom applications. Guest faculty members of the 2024 ARIE program would join our existing ARIE faculty/scientists and share their expertise with K-12 teachers and our team. During the 10-day ARIE program, guest faculty will have the opportunity to pilot short research projects in their focal areas and mentor K-12 teachers. Guest faculty are also welcome to assist with existing research projects if interested. In addition, we encourage guest faculty to deliver a presentation on one's research and/or lead a workshop for participating teachers. Following the conclusion of the ARIE program, the Morpho Institute will host its 1st Annual "Mentoring Educators in the Amazon" Symposium on July 20-21, in which guest faculty, local naturalists, and the Morpho Institute team will discuss the future of K-12 teacher professional development in the Amazon. This symposium will also explore the potential for future collaborative grant submissions, particularly NSF Research Experience for Teachers. Post-symposium, guest faculty will have 3 additional days to explore the Napo-Sucusari Biological Reserve (including research opportunities on the longest tree canopy walkway in the Americas) with the assistance of our on-site natural history guides, to provide time to better learn about the local ecology and pilot data collection. Ultimately, we hope to recruit guest faculty who may be interested in joining us long-term as full faculty members. Unlike full faculty members, however, we unfortunately cannot completely fund guest faculty in 2024. Instead, we offer

a greatly reduced rate that covers the cost of lodging for the full 2 weeks, 3 catered meals per day, on-site natural history guides, bus and boat transportation to the field site, and travel to/from a local indigenous community for workshops: \$1100 USD (airfare not included).

Who: PhD-level scientists (exceptional ABDstudents considered) When: July 11-25, 2024, in Loreto, Peru (Symposium July 20-21) Where: Amazon Conservatory for Tropical Studies in the Napo-Sucusari Biological Reserve, Loreto, Peru (outside of the city of Iquitos) How: To request an application, please contact Dr. Lindsey Swierk ([lindsey.swierk@actsperu.org](mailto:lindsey.swierk@actsperu.org)). Applications are due by January 5, 2024 (extended deadline). Don't miss this chance to be part of something remarkable! Join ARIE and Morpho Institute to make a lasting impact on Amazon conservation and K-12 education.

Lindsey Swierk, PhD | [www.lindseyswierk.com](http://www.lindseyswierk.com) | (she/her) Assistant Research Professor Department of Biological Sciences Binghamton University | The State University of New York

Lindsey Swierk <[lindseys@gmail.com](mailto:lindseys@gmail.com)>

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## UploadsToENA Firewalls

Hi,

I've recently been struggling to upload data to the ENA from behind the firewall at University of Nottingham. I believe this is a common issue for anyone trying to submit data from behind an institutional firewall as an exception to the firewall must be made for the ENA server by the IT department before any submission can be made.

After previously having a firewall exception in place that worked I discovered recently that the ENA have changed the IP address of their server such that the firewall exception must be amended by IT for data to be submitted.

It took me a long time of searching ftp connection errors before I realised this so thought it might be useful to others to share a link to the updated firewall configuration (<https://ena-docs.readthedocs.io/en/latest/submit/fileprep/upload.html#appendix-configuring-your-firewall-for-ena-upload>) and new details, which are on the ENA website but not

particularly obviously!

#### Appendix: Configuring Your Firewall For ENA Upload

While most users should not encounter problems in this area, it may sometimes be necessary to configure your firewall to permit upload of data to ENA. Users attempting to connect from an institutional network may find that their IT services department has placed restrictions on their ability to connect to FTP services. This information could be useful in getting our service whitelisted.

FTP is used in passive mode and connection will be opened to one of the below ports:

§40000

§50000

Access to port21is required for the following IP address ( webin2.ebi.ac.uk ):

§193.62.193.143

All the best, Laura

Dr. Laura Dean Senior Technical Specialist (Bioinformatics)

Room A104 (off the Frozen Ark) School of Life Sciences  
University of Nottingham University Park NG7 2RD

e-mail:laura.dean@nottingham.ac.uk phone: 0115 951 3225

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Laura Dean <Laura.Dean@nottingham.ac.uk>

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## ArizonaStateU MicrobiomeArizonaSkyIslands

**\*Research topic:**

Coevolution, Microbiome, Wild rodents, and Bioinformatics

**\*Location:**

Suzuki lab Biodesign Center for Health Through Microbiomes Arizona State University

**\*Description:** The Suzuki lab is currently looking for a postdoctoral researcher interested in the ecology and evolution of host-microbial interactions with expertise in metagenomics, phylogenetics, and/or microbial ecology.

Understanding the origins and transmission patterns of complex mammalian microbiomes is a fundamental question in microbial ecology and evolution. It has been reported that some gut microbial species are passed from parents to offspring across multiple generations, a phenomenon known as host-microbial codiversification, in primates, including humans (<https://www.science.org/doi/10.1126/science.abm7759>). However, outside of primates, mammal-microbial codiversification has not been explored, and the mechanisms that maintain such evolutionary stable associations remain unknown. The goal of this project is to test host-microbial codiversification in five species of deer mice (genus *Peromyscus*) in the Santa Catalina Mountains (SCM) east of Tucson, Arizona. While different species of *Peromyscus* have been found to harbor species-specific microbial communities, it is unclear whether these animals exhibit codiversification. Additionally, SCM offers a unique opportunity to investigate natural variations in the microbiome across an elevational gradient, encompassing desert to forest environments. These diverse habitats are inhabited by various rodent species that co-occur with *Peromyscus*. By collecting feces from other rodent species that share these habitats with *Peromyscus*, we can characterize transmission patterns within and between rodent species. SCM serves as a natural experiment that allows us to disentangle the effects of host genetics from shared environments on codiversification.

The postdoc is expected to directly engage in projects within the scope of my research program or use the

system and samples to ask independent questions on the ecology and evolution of animal hosts, microbes, or their interactions.

**\*Qualifications:**

- A Ph.D. with a background in Computational Biology, Bioinformatics, Phylogenetics, Metagenomics, Microbial Ecology, Population Genetics, Evolutionary Biology, or a related field.

- Research experience with metagenomics, microbial genomics, and host-microbe interactions.

- Strong publication record and excellent communication skills

- Independence, creativity, and passion.

**\*How to apply:**

Please send your CV and a brief description of your research interests in English or Japanese to Taichi Suzuki ([taichi.suzuki@asu.edu](mailto:taichi.suzuki@asu.edu))

**\*Deadline:**

Applications will be reviewed until the position is filled.

**\*Contact:**

Taichi Suzuki, PhD College of Health Solutions and Biodesign Center for Health Through Microbiomes Arizona State University Tempe, AZ, USA

Email: [taichi.suzuki@asu.edu](mailto:taichi.suzuki@asu.edu)

Website: <https://www.taichilab.org/> Taichi Suzuki <[Taichi.Suzuki@asu.edu](mailto:Taichi.Suzuki@asu.edu)>

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## BIOPOLIS-CIBIO Portugal EvolutionaryGenomics

RESEARCHER POSITION ON EVOLUTIONARY GENOMICS AT CIBIO-INBIO, BIOPOLIS, PORTUGAL

Application deadline: 22 January 2024. MAIN RESEARCH FIELD: Biological Sciences, Evolutionary Genomics Reference: BIOPOLIS 2023-81 Job posting and application at <https://www.cibio.pt/biopolis-2023-81-2/> JOB DESCRIPTION: BIOPOLIS/CIBIO

(<https://cibio.up.pt/en/> , <https://www.biopolis.pt/en/>) is seeking a highly motivated post-doctoral Junior Researcher in the area of Evolutionary Genomics, under a non-fixed term work contract with an expected duration of 2 years. The Researcher position is integrated in the Group EVOCHANGE, Genomics of Evolutionary Change (<https://cibio.up.pt/en/groups/genomics-of-evolutionary-change-evochange/>). The main aim is to use genomic sequencing data to infer evolutionary processes in natural animal populations, such as the genetic basis of colouration traits, local adaptation or introgressive hybridization, and building predictive models. The work plan consists of the following tasks: processing and analysing high throughput DNA sequencing data; creating eco-evolutionary predictive models under scenarios of climate change; managing genomic data and computational resources.

**WORKPLACE:** The workplace is BIOPOLIS/CIBIO - Centro de Investigação em Biodiversidade e Recursos Genéticos, Rua Padre Armando Quintas nº7 | 4485-661 Vairão, PORTUGAL. BIOPOLIS/CIBIO's mission is to develop world-class research in the area of biodiversity, advancing knowledge on the origins and maintenance of biodiversity, and applying this knowledge to address societal challenges related to climate and land use changes, environmental degradation, the loss and sustainable use of biodiversity and agrobiodiversity, and the management, restoration and sustainable use of ecosystems and their services. BIOPOLIS/CIBIO has 196 researchers with a PhD, which are based in several universities and research institutes across Portugal and in one University in Angola. There are 34 research groups, which are organised in three thematic lines on 1) Evolution, Genetics & Genomics, 2) Biodiversity, Ecology & Conservation, and 3) Sustainability, Ecosystems & the Environment. These research groups focus their activity on biodiversity and ecology, evolutionary biology and applied ecology, and integrate experts in complementary fields, such as molecular and population genetics, phylogeography, population biology, immunogenetics, taxonomy, ecology, functional biology, bioinformatics and computational biology, landscape management and conservation.

**TENDER ADMISSION REQUIREMENTS:** Application can be submitted by any national, foreign, and stateless candidate(s) holding a doctorate degree in Biology and related areas, and a scientific and professional background that aligns with the specific activities described below (item 7). In case the doctorate degree was awarded by a foreign higher education institution, it must comply with the provisions of Decree-Law no. 66/2018 of 16 October, and all formalities established therein must be complied with at the signature of work contract. Specific requirements are: (i) experience in

research in evolutionary genetics and genomics; (ii) Experience in using computational tools to analyse high throughput DNA sequencing data; (iii) experience in publishing papers in indexed international peer-reviewed scientific journals; (iv) experience in evolutionary and ecological modelling simulation frameworks is valued.

**APPLICABLE LEGISLATION:** Decree-Law no. 57/2016 of August 29th, amended by Law 57/2017 and Regulatory Decree No. 11- A / 2017 which approved the doctorate hiring regime destined to stimulate scientific and technological employment for all knowledge areas (RJEC); Portuguese Labour Code, approved by Law 7/2009 of February 12, in its actual form.

**WORK CONTRACT:** Non-fixed term work contract with expected duration of 2 years.

**SALARY:** Monthly remuneration to be paid is that set by subheading a) nr.1 article 15 of RJEC and article nr 2 of the Regulatory Decree nr. 11-A/2017, corresponding to level 33 of the Tabela Remuneratória Única, approved by Order no. 1553-C/2008 of December 31st, i.e., 2228,11 Euros.

**HOW TO APPLY:** <https://www.cibio.pt/?p=2910> (where instructions and selection procedures are detailed). The call for applications is open until 22 January 2024. Expected starting date: 1st March 2024

Informal inquiries can be made to Jose Melo-Ferreira ([jmeloferreira\[at\]cibio.up.pt](mailto:jmeloferreira@cibio.up.pt)).

José Melo-Ferreira <[jmeloferreira@cibio.up.pt](mailto:jmeloferreira@cibio.up.pt)>

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## CNRS Moulis Aquatic Community Genomics

Dear all,

A position as a Post-Doctorate in Population Genomics, Bioinformatics, and Ecosystem Functioning is currently open for applications within the LINKING team at the SETE-CNRS station (<https://sete-moulis-cnrs.fr>). The primary aim of this position is to develop molecular resources (candidate genes conserved across phyla) to estimate the genomic diversity of freshwater communities and infer the links between genomic diversity measured at the community level and ecosystem functions.

**Missions** The selected candidate will play a pivotal

role in a project funded by CNRS and ANR Labex Tulip (<https://www.labex-tulip.fr/>) with the mission of developing molecular resources for assessing genomic diversity at the scale of biological communities and empirically testing these resources. Traditionally, biodiversity is measured by either quantifying the number of species in a community (interspecific diversity) or estimating genetic/genomic diversity within individual of a few species (intraspecific diversity). Both facets of diversity constitute biodiversity, but they are typically assessed separately due to the absence of a universal unit that encompasses both inter- and intraspecific diversity.

This separation substantially limits our comprehension of (i) the mechanisms that underlie biodiversity patterns in space and time, (ii) the consequences of biodiversity loss on ecosystem functioning, and (iii) potential reciprocal influences between biodiversity and the environment (eco-evolutionary feedbacks). Recently, we introduced a pioneering framework in which genomic diversity measured at candidate (functional) genes conserved across the tree of life, known as phylogenetically-conserved candidate genes (PCCGs), may bridge this gap. It enables a comprehensive estimation of biodiversity, referred to as inclusive biodiversity, at the community level (Blanchet et al., Mol Ecol, 2023).

As part of an ongoing project, and building upon preliminary research (Fargeot et al., unpublished data), the successful candidate will be responsible for conducting bioinformatic analyses to identify PCCGs within two significant taxonomic groups: freshwater zooplankton and riparian trees (and/or freshwater phytoplankton). Subsequently, the candidate will validate these PCCG resources through artificial, experimental, and natural community samples. Natural community samples will also be utilized to uncover the drivers of PCCG diversity in the wild. Finally, the candidate will participate in biodiversity-function experiments within freshwater ecosystems as part of an ongoing PhD thesis.

#### Main activities

- Identify relevant functional candidate genes
- Isolate the sequences of these genes in species phylogenetically close to the targeted taxonomic groups
- Ensure monitoring of the development of capture probes
- Ensure the monitoring of the sequencing of targeted genes and help at the molecular lab (DNA extraction, library preparation)
- Carry out genomic analyzes of populations and communities
- Statistical analysis of data
- Writing of scientific articles and communication

-Supervision of students

Skills - Solid skills in bioinformatics (genome surveys, genome alignments, genomic markers identification procedures, etc).

- Good knowledge in molecular biology, especially associated with library preparation for NGS and gene capture

- Prior knowledge in aquatic environments and/or ecosystem functioning and/or ecological theories would be an advantage. More generally, we are seeking for an open-minded candidate interested by both ecological and evolutionary thinking.

#### Work context

The recruited person will be based at the Theoretical and Experimental Ecology Station (<https://sete-moulis-cnrs.fr/fr/>) in Moulis in Ariège (France). The Station is made up of around sixty people and hosts research in ecology and evolution on various organisms and combining field, experimental and theoretical approaches. The recruited person will be welcomed within the LINKING team (<https://sete-moulis-cnrs.fr/fr/recherches/linking>) whose research focuses on establishing links and feedback between changes in the biodiversity, species interactions, ecosystem functioning and human activities. The Station is located in a small village at the foot of the Pyrenees Mountains and a few kilometers from a town with all services and shops. It is a bucolic, soothing setting that is particularly attractive for people who enjoy outdoor activities.

#### Constraints and risks

-Field work in an isolated environment

-Electric fishing

-Experimental work with animals that may require time constraints on weekends

Applicants should have a doctorate in Bioinformatics and/or Evolutionary

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## ColoradoStateU CropAdaptationPangenome

Use your genome biology or molecular evolution expertise to support climate resilience and food security for smallholder farmers in Africa!

The Morris Lab at Colorado State University is looking a postdoc with expertise in genome biology and/or molecular evolution to identify adaptive alleles in the sorghum pangenome that contribute to resilience to drought and Striga (a parasitic plant). The postdoc will lead evolutionary genomic analyses to identify functional variants in genes related to drought and parasite resilience, collaborating with genome scientists and trait specialists at Penn State, Hudson Alpha, and CERAAS-Senegal. The knowledge gained will further our understanding of crop adaptation, and be directly used by African plant breeders to develop genetic markers and breed climate resilient crop varieties for smallholder farmers.

Apply here by December 9: <https://jobs.colostate.edu/postings/136383> Learn more about our work: <https://doi.org/10.1093/plcell/koac267> <https://www.science.org/doi/10.1126/sciadv.abj4633> <https://onlinelibrary.wiley.com/doi/abs/10.1002/tpg2.20176> <https://www.pnas.org/content/117/8/4243> Geoff Morris Associate Professor, Crop Quantitative Genomics Colorado State University, Soil & Crop Sciences Plant Sciences Building C119, Fort Collins CO Geoff.Morris@colostate.edu | 312-909-1330 [www.cropadaptation.org](http://www.cropadaptation.org) “Morris,Geoffrey” <Geoff.Morris@colostate.edu>

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## Eawag Zurich EpigenomicsRapidAdaptation

Eawag, the Swiss Federal Institute of Aquatic Science and Technology, is an internationally networked aquatic research institute within the ETH Domain (Swiss Federal Institutes of Technology). Eawag conducts research,

education and expert consulting to achieve the dual goals of meeting direct human needs for water and maintaining the function and integrity of aquatic ecosystems. The Department of Aquatic Ecology (Eco) located in Dübendorf has a vacancy for a

Post-doctoral researcher (80-100%) Rapid adaptation of Quagga mussels to multiple stressors (2.5 years)

The position is part of the international interdisciplinary applied research project “SeeWandel-Climate: Modelling the consequences of climate change and neobiota for Lake Constance”. The ecosystem of Lake Constance is expected to undergo significant changes in the next few decades due to the interacting effects of continued climate warming and invasive species, such as the further proliferation of the quagga mussel that has recently invaded the lake. Existing long-term data and new data enable changes in the food web to be investigated, taking into account the interaction with climate change. The data is incorporated into simulation models that forecast the changing biology and ecology of Lake Constance for decades to come. The general goal of SeeWandel-Climate is to provide projections of the consequences of climate change and the impact of invasive species on the Lake Constance ecosystem and its sustainable utilization. The large collaborative project involves researchers from 7 institutions from Germany, Austria and Switzerland, working closely with authorities across borders relying on these projections to implement integrated management at Lake Constance. SeeWandel-Climate receives funding under the Interreg VI programme “Alpenrhein-Bodensee-Hochrhein (Germany/Austria/Switzerland/Liechtenstein)” which funds are provided by the European Regional Development Fund as well as the Swiss Confederation and cantons, and the international Lake Constance commissions “Internationale Gewässerschutzkommission für den Bodensee” (IGKB) and “Internationale Bevollmächtigtenkonferenz für die Bodenseefischerei” (IBKF).

The Quagga subproject aims to investigate invasive Quagga mussels’ resilience under multiple stressors to predict how they will develop in the changing Lake Constance. Specifically, this project aims to 1) experimentally assess Quagga mussels’ resilience to i) temperature stress, ii) oxygen limitation, iii) pollution and iv) resource limitation using laboratory experiments on shallow and deep mussels and comparing their associated epigenomics and transcriptomic signatures; 2) investigating DNA methylation changes in Quagga mussel populations collected in the field; 3) Monitor yearly the distribution of Quagga mussels in Lake Constance to better project their distribution in the future. This subproject also includes a collaboration with Francesco

Pomati (Eawag) and Alexander Karatayev (Great Lakes Center, SUNY, USA).

The candidate is expected to: i) conduct fieldwork and lead multiple stressors experiments on Quagga mussels (single stressor and combined stressors), ii) generate and analyze whole-epigenome and transcriptome data from individuals from the field and from experiments, iii) participate in the yearly Quagga mussel monitoring at lake Constance, and iv) interpret and publish the project results through peer-reviewed articles and translational material dedicated to practitioners and stakeholders. There will opportunities to develop the postdoc's own research interests, and to assist in the supervision of Bachelor and Master students. The position can be filled at 100% for 2.5 years or at 80% for 3 years.

Ideally, the candidate has a strong background in evolutionary ecology and/or bioinformatics, and has recently earned a PhD in a relevant field of ecology or evolutionary biology. Fieldwork experience and experience in conducting laboratory experiments would be additional assets. We particularly value interest to interact with local practitioners and stakeholders. Hence, good knowledge of spoken and written German would be an advantage to appropriately communicate project results beyond a purely academic setting. Excellent communication skills in English and ability to work in a team are essential.

Applications should include a cover letter with a concise statement about your previous education and research experience, your mid-term career plans, and your motivation to work on this project (1-2 pages); a curriculum vitae including a publication list; copies of your academic qualifications; and names and contact information of 2-3 academic references. Applications must be submitted by 31st of December 2023. The position can start as early as March 2024 or upon mutual

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## Florida FungalPathogenEvol

Postdoctoral Research Associates in Plant Disease Ecology and Evolution University of Florida, Gainesville, FL

The Flory and Goss labs at the University of Florida (UF) are recruiting postdoctoral research associates for a project that examines the role of invasive plants in the eco-evolutionary dynamics of pathogen transmission across ecosystems boundaries and crop disease emergence (Goss et al. 2020 *Annu Rev Phytopath* < <http://www.annualreviews.org/eprint/A7K5RDGZAXAZ93ID5JJC/full/10.1146/annurev-phyto-010820-012757> >). This is a collaborative, interdisciplinary project funded by the USDA-NSF-NIH Ecology and Evolution of Infectious Disease program. Our focus is the rapid emergence of *Bipolaris gigantea*, a fungal pathogen of grasses, on industrial hemp (*Cannabis sativa* containing less than 0.3% THC). We previously studied outbreaks of leaf spot epidemics caused by *B. gigantea* on invasive grass *Microstegium vimineum* in natural ecosystems (Stricker et al. 2016 *Ecol Letters* < <https://doi.org/10.1111/ele.12583> >, Lane et al. 2020 *Mycologia* < <https://doi.org/10.1080/00275514.2020.1781495> >), and *B. gigantea* is found on monocot and dicot invasive and weedy plants bordering fields and into surrounding natural areas (Szarka et al. 2023 *Mycologia*). < <https://doi.org/10.1080/00275514.2023.2224699> > This project will examine ecological drivers of pathogen transmission within and between species and ecosystems, pathogen evolution on a novel host, and will develop eco-evolutionary infectious disease models for coupled natural-agricultural systems. Postdocs in both labs will work closely with project PIs, Luke Flory (UF Agronomy), Erica Goss, Phil Harmon and Brantlee Spakes Richter (UF Plant Pathology), Bob Holt (UF Biology), Nicole Gauthier (U Kentucky), Natalie Christian (U Louisville), Maria Orive (U Kansas), Keith Clay (Tulane University), and two postdocs working on the modeling objectives. The University of Florida has large and dynamic research programs in ecology and invasion science, plant and fungal, and genomics, providing a strong intellectual environment for postdocs.

Flory lab postdoc: A Ph.D. in ecology, evolution, environmental science, plant pathology, or a closely related field is required. Ideal candidates will have broad field ecology experience and peer-reviewed publications, and will be familiar with plant disease ecology. The successful candidate will have excellent demonstrated writing, presentation, and statistical analysis skills, and have experience managing large field projects. The postdoctoral researcher will be integrally involved in the design and implementation of field and greenhouse experiments, data analysis, manuscript preparation, presentations at conferences, and mentoring of summer REU students. Must be able to travel to field sites in Kentucky. Apply here: <https://explore.jobs.ufl.edu/en-us/job/529607>

Plant Pathology postdoc: A Ph.D. in plant pathology, ecology and evolution, or a closely related field is required. Preferred candidates will have research experience in experimental and genomics research on fungi, including bioinformatic skills and knowledge of foundational methods in fungal plant pathology, demonstrate effectiveness working collaboratively in a diverse and inclusive environment, have peer-reviewed publications, and excellent oral and written communication skills. This postdoc will have a substantial undergraduate research mentoring component and will be jointly supervised by Goss, Spakes Richter and Harmon. Apply here: <https://explore.jobs.ufl.edu/en-us/job/529608>

Preferred start date for postdocs is June 1, 2024. Renewable annually up to 2.5 years.

For full consideration please submit application materials by January 15, 2024. Informal inquiries are welcome:

S. Luke Flory [flory@ufl.edu](mailto:flory@ufl.edu) 352-231-2376 [florylab.com](http://florylab.com)

or

Erica Goss [emgoss@ufl.edu](mailto:emgoss@ufl.edu) 352-273-4650

The University of Florida is an Equal Opportunity Institution. The University and greater Gainesville community enjoy a diversity of cultural events, restaurants, year-round outdoor recreational activities, and social opportunities.

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## FrancisCrickInst London EvoDevo

Dear all,

Nic Tapon's lab, The Francis Crick Institute, London, UK We are seeking a motivated postdoctoral scientist who will investigate the cellular and molecular mechanisms of organ size evolution using the abdominal epidermis of fruit flies of *Drosophila* genus species as model systems. Follow this link for further details: <https://tinyurl.com/TaponLabJob2> Applicants should be independent, passionate and collegial, with a PhD in evolutionary developmental biology or a related discipline and a strong academic track record. Salary: from 41,935 with benefits, subject to skills and experience 4 year fixed-term contract

Located in central London, the Francis Crick Institute provides an outstanding research environment with a collaborative atmosphere and access to cutting-edge technologies. Our postdoctoral programme includes numerous opportunities for career develop-

ment: <https://www.crick.ac.uk/careers-study/postdocs>  
Informal enquiries: [nic.tapon@crick.ac.uk](mailto:nic.tapon@crick.ac.uk) <https://www.crick.ac.uk/research/labs/nic-tapon> All the best,

Nic

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Nicolas Tapon <[Nic.Tapon@crick.ac.uk](mailto:Nic.Tapon@crick.ac.uk)>

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## IISER-TVM Kerala India EvolutionaryEcology

Post-doctoral position at IISER Thiruvananthapuram, Kerala, India

A postdoctoral ((Research Associate) position in Evolutionary Ecology is available at IISER Thiruvananthapuram, Kerala, India, in the Vanasiri Evolutionary Ecology Group of Ullasa Kodandaramaiah ([www.vanasiri.in](http://www.vanasiri.in))

DEADLINE: 15 Jan 2023.

SALARY: Rs. 54,520 per month (including Housing Rent Allowance)

RESEARCH SUBJECT(S): Our research group works on various questions, with evolution being the common theme across all projects. We have used multiple model organisms, including insects, plants and reptiles. However, butterflies are the main model system in the lab. More information about our research can be found here [www.vanasiri.in/research](http://www.vanasiri.in/research). I prefer candidates who can work on projects in one of the four themes mentioned below. However, I am also open to candidates who want to address other kinds of questions in evolutionary ecology, as long as the project fits in with the broad interests of the lab, and is feasible. Please look at our lab publications over the last few years for an idea of what kinds of projects could interest me.

Preferred areas 1) Evolution of desiccation tolerance 2) Life history trait evolution 3) Evolution of anti-predatory defenses 3) Insect host-plant coevolution

Interested candidates can write to me ([ullasa@iisertvm.ac.in](mailto:ullasa@iisertvm.ac.in)) with your CV to discuss how you could fit in, and for details of the formal application procedure.

The IISER Thiruvananthapuram campus is arguably the most beautiful campus of its kind in India, and undoubtedly one of the best places for ecological and evolutionary studies ([www.iisertvm.ac.in/pages/campus](http://www.iisertvm.ac.in/pages/campus); <http://icreee.org/#facilities>). We are part of the Western Ghats mountains and the hyper-biodiverse Agasthyamalai Biosphere reserve. Our campus has patches of forest, and is contiguous with protected areas. IISER Thiruvananthapuram has plenty of motivated undergraduates who intern in research labs during the summer/winter breaks, as well as during the teaching semester as semester interns. We also have masters students in our lab every year.

**HOW TO APPLY:** Completed applications should be sent by email to Ullasa Kodandaramaiah ([ullasa@iisertvm.ac.in](mailto:ullasa@iisertvm.ac.in)), WITH THE SUBJECT LINE "RA Position Jan 2024 - Your Name". Candidates are encouraged to contact Ullasa Kodandaramaiah to discuss possibilities for collaborative work. The application should contain a detailed resume, a statement of interest including a research proposal. Please include contact details (phone number, email and postal address), a photograph, scanned copies of educational/professional details.

**DURATION:** The initial contract will be for 1 year, but can be extended up to 3 years. The selected candidate is expected to join as soon as possible.

**LIFE ON CAMPUS AND THIRUVANANTHAPURAM (TRIVANDRUM):** Thiruvananthapuram is about 40 km from the campus, and many staff/faculty members commute from there on a daily basis. Thiruvananthapuram is a coastal city and the capital of Kerala, with a rich cultural heritage. It is within a stone's throw away from world famous beaches such as Kovalam and Varkala, and stunning backwater tourism areas such as Poovar. Being a major medical tourism destination, the city has excellent medical care facilities. Thiruvananthapuram is a relatively small city, and the cost of living tends to be considerably lower than in other Indian cities. A 2-bedroom apartment can be rented for Rs 10,000 to 15,000 per month. There are plenty of options for dining out - a meal at a decent local restaurant can start from Rs 100, but one can dine even in five-star hotels for less than Rs 2000. Costs for groceries and other daily needs can be looked up here: [www.bigbasket.com](http://www.bigbasket.com). Taxis can be hired at ca. Rs 18 per km (with a minimum fare of ca. Rs 200). Fuel (petrol/diesel) costs about Rs 95-105/litre.

Limited accommodation is also available in Vithura, ca. 5km from the campus. Vithura is a small town set in at the foothills of the Western Ghats. Hill stations (e.g. Ponmudi) and wildlife sanctuaries are close by.

Lab Website - /Vanasiri/ < <http://www.vanasiri.in> >  
ICREEE: Ecology and Evolution @ IISER-TVM < <http://www.icreee.org> >

Ullasa Kodandaramaiah

Associate Professor Indian Institute of Science Education and Research (IISER) Thiruvananthapuram < <http://iisertvm.ac.in> > Maruthamala P.O., Vithura, Thiruvananthapuram Kerala, India. 695 551.

Ullasa Kodandaramaiah <[ullasa@iisertvm.ac.in](mailto:ullasa@iisertvm.ac.in)>

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## iomE Mainz EvolutionSocialInsects

The Faculty of Biology, Institute of Organismic and Molecular Evolution, Department Behavioural Ecology and Social Evolution at the Johannes Gutenberg University of Mainz, Germany is looking for a

Postdoctoral researcher / Junior Group Leader

(m/f/d)

Evolution, Epigenetics and Genomics and/or Behavioural Ecology of Social Insects

for up to 4 ½ years

Employment will be as a researcher (EG 13 TV-L, 100%) on a postdoctoral or junior group leader position, depending on the applicant's experience and interest.

We are looking for a collaborative early career researcher with a competitive publication record in the field of (molecular) evolution, genomics and/or behavioural ecology of social insects, preferably ants. Depending on prior experience, the position can be filled by a postdoc or a junior research group leader in order to establish a research team within the department. Applicants must hold a PhD and for group leader status, previous postdoctoral experience is expected. Knowledge of state-of-the-art molecular approaches including bioinformatics is important. The successful candidate should develop collaborative projects and participate in ongoing projects (e.g. on host-parasite coevolution, molecular regulation of division of labour and aging), including co-supervision of PhD students, and can pursue their own research projects. Fundraising and teaching experience are not required for the postdoctoral position, but are advantageous for the junior group leader, who should build an independent research group supported

by extramural funding (e.g. DFG, ERC). The successful applicant is expected to make minor contributions to teaching in the new international Master's programme in Evolutionary Biology and the GenEvo Research Training Group (<https://www.blogs.uni-mainz.de/fb10-evolutionary-biology/research-groups/>) The research of the department composed of several international teams and headed by Prof. Dr. Susanne Foitzik, focusses on the (co-)evolution, behavioural ecology and epigenetics of social insects (<https://www.blogs.uni-mainz.de/fb10-evolutionary-biology/research-groups/>) and is part of the Institute of Molecular and Organismic Evolution iomE (uni-mainz.de). Scientific interactions with the other groups of the department and the graduate programme "Gene Regulation in Evolution" are expected. Our new JGU Biocentre I offers excellent research conditions with state-of-the-art laboratories for molecular genetics, chemistry, NGS sequencing and climate chambers for animal husbandry.

Johannes Gutenberg University Mainz is interested in increasing the proportion of women in science. Applications from female scientists are highly encouraged. Equally, preference will be given to qualified applicants with disabilities. Mainz University (<https://homepage.uni-mainz.de/>) is home to many excellent scientific institutions, including the Institute of Molecular Biology (IMB, [www.imb-mainz.de](http://www.imb-mainz.de)), and Mainz is a historic city on the Rhine with many students and a rich social and cultural life (Landeshauptstadt Mainz: Portal page | Homepage).

Interested candidates should send an application (as a pdf attachment including CV, publication list, statement on research interests, and contact information of two possible referees) to foitzik@uni-mainz.de

Prof. Dr. Susanne Foitzik Institute of Organismic and Molecular Evolution Johannes Gutenberg University Mainz Biozentrum Hanns Dieter Hißsch Weg 15 D-55128 Mainz Germany Tel: +49 (0) 6131 39 27 840

Closing date for this position is 2nd of January 2024, online interviews will be held in January 2024, possible starting dates in the first half of 2024

"Foitzik, Susanne" <foitzik@uni-mainz.de>

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## Montpellier France MousePopulationGenomics

A two-year post-doctoral position is open to study mouse population evolutionary genomics at Institut des Sciences de l'Evolution, Montpellier, France.

Full information can be found here:

[https://listes.umontpellier.fr/sympa/d\\_read/evolfrance/Two%20year%20postdoc%20position-Population%20Genomics-Montpellier.pdf](https://listes.umontpellier.fr/sympa/d_read/evolfrance/Two%20year%20postdoc%20position-Population%20Genomics-Montpellier.pdf) Dr. Pierre BOURSOT Institut des Sciences de l'Evolution Université de Montpellier Case Courrier 063 Place Eugene Bataillon 34095 Montpellier cedex 5 FRANCE tel: +33 (0)4 67 14 46 86 Email:pierre.boursot@umontpellier.fr pierre.boursot@umontpellier.fr

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## MPI AnimBehav EvolEcolBirdMigration

THREE-YEAR POSTDOCTORAL POSITION at the Max Planck Institute of Animal Behaviour: Understanding the eco-evolutionary dynamics of seasonal migration in a partially migratory songbird

The Department of Migration at the Max Planck Institute of Animal Behavior is looking for a highly motivated Postdoc. The department offers a postdoctoral position for 3 years on the ecology and evolution of partial migration. This project is part of an ongoing research program understanding the decision rules of a migratory live in songbirds within the Partecke lab.

The project: The study species is the Common blackbird (*Turdus merula*) which is either stationary year-round, partial, or full migratory. The clear-cut behavioral dichotomy of migrant versus resident phenotypes enables us to investigate both proximate and ultimate causes of migration within the same species. Using newest IoT biologging technology, we monitor, in a collaborative effort, blackbirds from various populations across entire



Europe with an unprecedented high spatial and temporal resolution. In addition, we also study migration strategies of birds originating from full resident, partial or fully migratory populations that are bred under common garden conditions in our breeding facilities but then released into the wild. In addition to where individuals roam, onboard processed acceleration data allow us to estimate the energetic cost of living during the annual cycle and to determine when and where individuals die.

The aim of this project is to elucidate the decision rules that animal use to move across landscapes. What factors determine whether, when and where to migrate? Do these rules differ between populations. To what extent are these rules hard-wired, within individuals and populations, and/or plastic responses to environmental conditions. Do migrants experience different energetic costs compared to full residents during the annual cycle? Besides analysing data and writing manuscripts, the successful candidate will do field work as well.

**Job requirements:** Applicants must have a PhD degree at the start of this position. A background in animal behavior and/or ecology, experience with handling large data sets, and the analysis of animal movement data are required. Because the successful candidate will have large amounts of tracking data available strong statistical analytical and computational skills are critical. Practical experience with field work is advantageous, but not necessary. The successful candidate is also expected to have good collaborative skills and proven abilities to publish and present at a high international level.

The candidate can start as soon as possible and preferably before summer 2024.

**How to apply:** Interested applicants should submit a CV, names and contact information for 3 references, and a cover letter. The cover letter should include (1) a summary of the applicant's research so far and (2) their experience with the analyses of movement and spatial data, and (3) 1-3 research questions and approaches that the applicant would like to pursue within in the blackbird project. Please send your application to Dr. Jesko Partecke (partecke@ab.mpg.de). Applications will be gladly accepted before February 15th 2024.

**Other links:** <https://www.ab.mpg.de> <https://www.ab.mpg.de/342916/partecke>

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## NorwegianInstNatRes ClimateAdaptation

NINA is the leading research institute for applied ecology in Norway. Applications are invited for a two-year post-doctoral research associate position (from ~15 February 2024) in the project "Interactive effects of pollutants and climate on seabirds in Arctic Coastal ecosystems (ClimACTox)". at the NINA office in Trondheim or Oslo, Norway. The project is funded by a grant from The Research Council of Norway.

The goal of ClimACTox is to address the consequences of climate, pollutants and seasonal distribution on the population dynamics of Arctic seabirds. We will examine three species of seabirds, common eiders *Somateria mollissima*, Arctic skuas *Stercorarius parasiticus* and great skuas *S. skua*, at several sites in high arctic and sub-arctic coastal Norway and Svalbard. The three species differ in their trophic ecology, life-history, and migratory movements, with wintering areas spanning from the southern hemisphere outside the coasts of Africa and South America, to Iceland and the coast of Norway. The Postdoctoral researcher will be a member of a strong project group with collaborators from NINA, the Norwegian University of Science and Technology (NTNU) and Littoral Environment and Society (LIENSs, La Rochelle, France).

About NINA NINA is an independent research institute with more than 330 employees. NINA is headquartered in Trondheim, and have research departments in Oslo, Lillehammer, Bergen and Tromsø. We have a wide range of expertise and experience in both natural science and social science research, including how various driving forces affect nature and the interactions between humans and nature. NINA is Norway's leading research institute in applied ecology and collaborates extensively with other research communities nationally and internationally. For more information about NINA - [www.nina.no](http://www.nina.no) < <http://www.nina.no> >.

The position The Postdoctoral researcher will be co-leading one of the work packages in the project (data acquisition). As such, the candidate is expected to take an active part in planning and conducting the fieldwork during the project period. There are two field work campaigns with a duration of ~4-6 weeks planned during the 2-year post-doctoral project. In addition, data from previous years are available to supplement the data ac-

quired during this project. The successful candidate will work closely together with another researcher funded through the Young Research Talent fellowship (Research Council of Norway), who will focus on pollutants and population dynamics in the Svalbard colonies.

This exciting research environment is ideally suited for a post-doctoral researcher with interests in several of the relevant topics (e.g. pollutants, seabird ecology, tracking), and there is flexibility in shaping the exact research questions. The variety of available data offers a good opportunity to 1) work on predefined research questions (long-term effects of climate change and/or pollutants - on multi-species and multi colony aspects (data partly acquired) and 2) develop an additional project depending on the candidate interests (based on data already acquired supplemented with additional data obtained during fieldwork).

Qualifications - Candidates must have a Ph.D. in Biology, with a focus on Ecology/Zoology. - We are looking for a candidate with independent fieldwork experience and with good skills in one or more of the following areas: 1) statistical analyses (e.g. GAM, GLM(M), LM(M), tracking data, population models), 2) wildlife ecology, 3) ecotoxicology, 4) communication skills (e.g., scientific publications, oral communication, public outreach), 5) good organizational skills. - The ideal candidate will be creative, energetic and a team player. - NINA's everyday language is Norwegian, and language training is provided.

The application must contain: - A cover letter outlining the candidate's professional experience and interest that are relevant to the scope of the position. - A curriculum vitae with information on education, professional experience, publications, presentations, and research grants. The successful candidate will be asked to submit certified copies of university transcripts and diplomas. - Up to five examples of research products that illustrate the applicant's qualifications. Products can include published articles, technical reports or unpublished manuscripts. All materials will be treated in confidence. - Contact information for three referees who can speak in support of the qualifications of the candidate. Candidates will be notified before their referees are contacted.

For NINA, a good working environment is characterized by diversity. We encourage qualified candidates to apply regardless of gender, functional ability, cultural background or if you have been out of work for a

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## OklahomaStateU DiseaseDynamics

I am looking for someone interested in building statistical models of large-scale disease dynamics, particularly in Oklahoma (though there is the possibility of working on pretty much any disease system that interests you). This is part of an NSF funded project that will be starting up in January 2024 and going for at least three years. There are several positions available as part of the project, the one in my lab will be funded for two years. We will also be hiring two more post docs next year. It's a large collaborative project with a unique team including faculty in Integrative Biology (my lab), Geography, Mathematics, History and Communications. The project is unusual in that it will be a true collaboration between researchers in biology, mathematics and the social sciences.

The primary mission is to model COVID-19 outcomes across counties and urban areas of Oklahoma. However, there is also room in the project to develop additional projects on other disease topics you find to be of interest. For example, we already have projects spun up look at variation in tuberculosis case numbers across Oklahoma, the driver profile of documented Oklahoma disease outbreaks from 1980 to the present, and an investigation of factors that drove variation in outcomes among urban populations during the 1918 Spanish Flu pandemic.

Salary will depend on experience level, but it will be a minimum \$55,000 even for someone out of their PhD and will be enough to live quite well in Stillwater. To apply and see the formal job ad please use Interfolio:

<http://apply.interfolio.com/136743> Your application should include a (1) a cover letter telling me why you are interested in the position and think you are a good fit, (2) a CV, (3) at least one representative publication and (4) the names of three referees. Any application received before December 17th will certainly still be fully considered. However, I expect to be taking applications until at least January 1st based on past experience. If you have any questions e-mail me at [patrick.stephens@okstate.edu](mailto:patrick.stephens@okstate.edu).

Patrick R Stephens Assistant Professor Department of Integrative Biology 420 Life Sciences West Oklahoma State University Stillwater, OK 74078

[patrick.stephens@okstate.edu](mailto:patrick.stephens@okstate.edu)

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## RadboudU Netherlands EvolPlantGenomics

Postdoc position in evolutionary plant genomics at Radboud University, Nijmegen, The Netherlands

A new research group led by Prof. Charles Underwood focusing on plant reproduction, biotechnology and genomics research is being established at the Radboud Institute for Biological and Environmental Sciences at the Radboud University located in Nijmegen, the Netherlands. The group's research will address fundamental questions on the two hallmarks of sexual reproduction: meiotic cell division and fertilization and how they are skipped in nature by apomixis (clonal reproduction through seeds).

In absolute terms, apomixis is rare, as less than 0.1% of plant species can reproduce in this way. However, apomixis has been reported in more than 300 genera with a wide taxonomic distribution that encompasses more than 40 families of the plant kingdom. Apomixis is especially common in the sunflower, rose and grass families, yet does not occur naturally in major crop species. Understanding the evolution of apomixis in the sunflower family (Asteraceae) using population and herbarium genomics will be the focus of this position, which is initially funded for three years.

Our offer:

- a supportive and international working environment - access to cutting edge genomics, computing, microscopy and greenhouse research facilities - the chance to pursue fundamental research on plant chromosomes, meiotic recombination and apomixis

Your interests:

- an interest in how genetic material is inherited from one generation to the next - an appetite to apply long read sequencing, genome assembly and population genomics to understand the genetic basis of apomixis - a passion for fundamental research in the fields of reproduction, genomics, evolutionary biology and breeding

Your experience/background:

- a PhD in genomics, population genomics, population genetics, and/or bioinformatics - a strong track record in scientific research demonstrated by a first-author

publication or pre-print - initiative to explore potential funding sources (e.g., EMBO postdoctoral fellowship, Marie Curie fellowship, NWO Veni fellowship)

Radboud University

We are keen to meet critical thinkers who want to look closer at what really matters. People who, from their expertise, wish to contribute to a healthy, free world with equal opportunities for all. This ambition unites more than 24,000 students and 5,600 employees at Radboud University and requires even more talent, collaboration and lifelong learning. You have a part to play!

Application

Please send your CV (including the contact details of two or three references) and a letter of motivation to Prof. Dr. Charles Underwood (charles.underwood@ru.nl) with the subject title 'Radboud Postdoc'.

Applications will be gladly accepted before January 15th 2024.

Other links: <https://www.ru.nl/personen/underwood-c> <https://scholar.google.com/citations?user=mfLaI18AAAAJ&hl=en> <https://www.nature.com/articles/s41588-021-00984-y> [https://www.cell.com/current-biology/ppt/S0960-9822\(23\)00085-4.ppt](https://www.cell.com/current-biology/ppt/S0960-9822(23)00085-4.ppt)

Charles Underwood <Charles.underwood@ru.nl>

"Underwood, C.J. (Charles)"  
<charles.underwood@ru.nl>

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## Rennes France InsectComparativeGenomics

THREE-YEAR POSTDOCTORAL POSITION IN COMPARATIVE GENOMICS OF INSECTS ERC-FUNDED ALTEREVO PROJECT INRAE (National Research Institute for Agriculture, Food and Environment), Rennes, France

Context. This postdoctoral position is to take part to the ERC-funded ALTEREVO project (2023-2027) coordinated by Dr Jean-Christophe Simon, which aims at identifying the evolutionary and molecular determinants of plant-aphid interactions with a particular focus on host alternation. For more details on the project: <https://www.inrae.fr/en/news/erc-grant-better-understand-plant-insect-interactions>.

Research environment. The research will be performed in JC Simon's team at INRAE IGEPP, in Le Rheu nearby Rennes, Brittany, France (<https://www6.rennes.inrae.fr/igepp-eng/>). IGEPP is a joint research unit from three institutional bodies (INRAE, University of Rennes and Institut Agro). It provides excellent infrastructure to carry out comparative genomics in insects, including a bioinformatics platform (BIPAA at <https://bipaa.genouest.org/is/>) hosting dedicated genomic resources, databases and tools, fully equipped facilities for molecular and biological experiments on plants and insects, confined laboratories to work on genetically modified or quarantine organisms.

Research objectives of the position. Under the supervision of JC Simon, within an ambitious project involving other permanent and ERC-funded staff, the postdoc will perform comparative genomics to elucidate the evolution of the molecular mechanisms underlying adaptation to host plant in aphids. The postdoc will analyse whole-genome sequences from multiple aphid species (50genomes are already available). He/she will also contribute to generate new high-quality assembled genomes for additional aphid species. The postdoc will benefit from scientific and methodological support from partners with excellent skills in evolutionary genomics (Dr Julie Jaquiéry), and bioinformatics (Fabrice Legeai and Stéphanie Robin).

Expected skills. The applicant should hold a PhD in the field of comparative genomics or phylogenomics and an ability to conduct a research project in autonomy while being able to collaborate within a team. Skills and knowledge in molecular evolution and phylogenetics are crucial for the project. Experience in bioinformatics (genomics data analysis) is also required. Excellent skills in writing and communicating in English are expected.

Duration and salary. This 3-year (full-time) position will ideally start in February-March 2024. Net salary of ca. 2,500 euros per month (before taxes). Health care and social security are deducted directly from your salary, but you may need to take out a supplementary health insurance scheme.

How to apply. Application should contain a motivation letter, indicating the names and email addresses of two references, and a 2-page max curriculum vitae including publications. Send your application to [jean-christophe.simon@inrae.fr](mailto:jean-christophe.simon@inrae.fr) by December 30th. Pre-selected applicants will be interviewed through Zoom or an equivalent video-conference system in January 2024. Call for applications is open until the position is filled.

Jean-Christophe SIMON, PhD INRAE, UMR IGEPP (Institut de Génétique, Environnement et Protection des Plantes) Domaine de la Motte, 35653 Le Rheu

Cedex, France Tel. +33 (0)223485154 Email : [jean-christophe.simon@inrae.fr](mailto:jean-christophe.simon@inrae.fr)

Jean-Christophe Simon <[jean-christophe.simon@inrae.fr](mailto:jean-christophe.simon@inrae.fr)>

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## SZN UFerrara Italy EvolutionOfColonizationSuccess

Two researcher positions in evolutionary and conservation biology: the evolution of ecological success in small populations

Why do some populations fail to survive changing environmental conditions (e.g., extinction) while others thrive and even spread outside their historical range (e.g., biological invasions)? Can we predict whether a population facing a new environment will contract, displace, or expand? Join us as a researcher at the Stazione Zoologica Anton Dohrn (Naples, Italy) and the University of Ferrara (Ferrara, Italy) to explore the evolutionary processes underlying range shifts in a marine snail. The FIASCO project is fully funded and involves a broad network of local and international collaborators (see <https://raffinifrancescalab.weebly.com/the-fiasco-project.html>).

The project Illuminating range shifts through evolutionary FIASCO: contrasting Falling And Successful ColOnizations in replicated wild populations

Anthropogenic disturbances and climate changes can lead to rapid population declines, shifted geographic distributions, or rapid adaptation to new conditions. The drivers and implications of this disparity in species' responses remain puzzling. We explore the evolutionary mechanisms underlying range shifts by contrasting naturally replicated dispersal events in a marine snail. We leverage multidimensional information from whole genomes including chromosomal structural variants, phenotypic traits, and local habitat to clarify why some range shifts succeeded while others ended in a fiasco (i.e., a failure), advancing our understanding of the drivers of ecological success. Such knowledge is crucial to planning efficient actions to prevent the dramatic loss of unique biological heritages and the spread of alien invasive species, two major facets of the ongoing biodiversity crisis. See the project's webpage for details: <https://raffinifrancescalab.weebly.com/the-fiasco-project.html>

**Responsibilities** The two researchers are expected to contribute actively to both labs and the extended network and join forces to complete the project's objectives. They will generate, analyze, and manage multidimensional data, assist with training, produce and contribute to computational pipelines and peer-reviewed papers, and disseminate findings at professional and outreach activities. Specific tasks include collecting samples from natural populations and available data from collaborators, performing standardized phenotypic and behavioral measurements, extracting DNA for short and long reads, processing raw phenotypic and genetic data, identifying structural variants, conducting association studies and comparative analyses, reconstructing demographic changes, and contributing to dissemination initiatives. These assignments will also be distributed between the two postdocs according to their expertise and interests. There are ample opportunities to develop new research directions building on these themes and/or new approaches and directions for existing datasets. Applications for postdoctoral fellowships and grants, that would represent a strong asset for the next career steps, are highly encouraged and supported.

**Qualifications** If you are highly motivated, creative, passionate, and interested in biodiversity, evolution, genomics, and conservation, hold an MSc in biological, natural, or environmental sciences, evolutionary biology, bioinformatics, population genomics, or a related field, and are familiar (or willing to become acquainted) with bioinformatic analyses of large datasets, you're the ideal candidate we're seeking. A PhD or submitted thesis in a relevant area, wet-lab molecular laboratory skills, demonstrable experience with population genetics/genomics and NGS, knowledge in programming of scripts and high-performance computing, proficiency in written and oral communication, ability to work independently while effectively contributing to research teams, and an interest in outreach activities are an advantage.

**What we offer:** One position is based at the Department of Biology and Evolution of Marine Organisms at Stazione Zoologica Anton Dohrn in Naples (Italy, <https://raffinifrancescalab.weebly.com>). The other researcher will be based at the Department of Life Sciences and Biotechnology at the University of Ferrara (Ferrara, Italy, <https://sites.google.com/unife.it/popgg/home/-people>). The appointment is called "Assegno di Ricerca" in the Italian system, and it is a hybrid between a fellowship and an employment contract. They both are full-time, 12-month positions with continuation for an additional year pending satisfactory progress, and include a competitive salary well-exceeding the



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## UAlabama Birmingham MicrobiomeComputationalGenomics

\*Research topic:

Microbiota, Metabolic Diseases, and Computational Genomics.

\*Location:

Cheng Lab,  
Informatics Institute and School of Medicine,  
University of Alabama at Birmingham.

\*Description: The Cheng Lab is currently looking for self-motivated, independent, and passionate researchers with computational genomics expertise to become part of our team. We are a new research group that employs computational tools to investigate the microbiome and metabolic diseases, with a particular focus on the Brain-Gut-Retina Axis in Diabetic Retinopathy. We are collaborating with Dr. Maria Grant ( <https://scholar.google.com/citations?user=EGeZZ4MAAAAJ&hl=en> ).

\*Qualifications:

- A Ph.D. with a background in Computational Biology, Bioinformatics, Biostatistics, Network Science, Microbiome Sciences, Population Genetics, Evolutionary Biology, or a related field.

- Research experience with network analysis, scRNAseq, metabolomics, phosphoproteomics, microbial genomics, metagenomics, and host-microbe interactions.

- Strong publication record and excellent communication skills

- Independence, creativity, and passion.

\*How to apply:

Please send your CV and a brief description of your research interests to Changde Cheng ( [ccheng3@uab.edu](mailto:ccheng3@uab.edu) )

\*Deadline:

Applications will be reviewed until the position is filled.

\*Contact:

Changde Cheng, PhD Department of Medicine

Department of Bioinformatics and Data Science University of Alabama at Birmingham

Email: ccheng3@uab.edu

Website: <https://changde-cheng.github.io/> Changde Cheng <changde.cheng@gmail.com>

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## UArizona EvolutionReproductiveIncompat

The Matzkin Lab at the University of Arizona ([www.matzkinlab.org](http://www.matzkinlab.org)) is currently recruiting a postdoc to start on 6/1/2024 on an NIH funded project aiming to investigate the function of male-derived female-translated proteins (mdFTPs) in the lower reproductive tract of cactophilic *Drosophila* females. Please see our currently in-review manuscript describing our mdFTP work in bioRxiv (<https://www.biorxiv.org/content/10.1101/2023.09.22.558997v1>). The original appointment will be for one year and can be extended up to two more years. I am seeking a highly motivated and creative individual with strong molecular, genomics, computational, and/or evolutionary genetics skills to join our evolutionary and ecological genomics lab. Good writing and communication skills will be required for this position. Prior experience working with *Drosophila* is not necessary, but a plus. Postdoc will be based at The University of Arizona, Department of Entomology and will also interact closely with collaborator, Dr. Jeremy Bono, at the University of Colorado Colorado Springs. Additionally, postdoc will have the opportunity to interact with investigators at the BIO5 Institute and Department of Ecology and Evolutionary Biology at the University of Arizona.

**Duties & Responsibilities:** The postdoc will be involved in all research aspects of the NIH project, and would have the possible opportunity to develop new projects in consultation with Dr. Matzkin and Dr. Bono. Critical and independent thinking is very important for this position, as well as having the ability to analyze data, write manuscripts and proposal writing.

- The postdoc will be responsible for and oversee the generation of CRISPR KO and UAS/GAL4 transgenic *Drosophila* lines of candidate genes. This will include

overseeing or directly doing the injection of embryos and all the genotyping necessary associated with the generation of KO and transgenic lines. The postdoc will also be in charge of the generation UAS and GAL4 plasmids for injection.

- The postdoc will be responsible for the functional assays for all KO and transgenic lines generated. These assays include the assessment of fecundity, female remating behavior and sperm competitiveness. Additional phenotypes will also likely be measured guided by results of experiments.

- The postdoc will be responsible for the single cell RNAseq (scRNAseq) and standard RNAseq experiments of reproductive tracts in both female and males, including that of the KO and transgenic lines. The duties include overseeing and assisting in the collection of the samples, extraction of RNA and generation of libraries, as well as the analysis of the data.

- It is expected that the postdoc will take a leadership role in the analysis of the data generated as well as the writing of the manuscripts. It is also expected given the leading role of the postdoc in these activities, that the individual will be first author in many of them.

- Postdoc will participate in lab meetings of the Matzkin lab and the joint project meetings with the Bono lab as well as present their work at national and international conferences.

- Postdoc will interact with the graduate and undergraduate students in the Matzkin and Bono labs as well as having the opportunity to be involved in outreach activities.

**Qualifications:** The candidate is expected to have a PhD in genetics, genomics, evolutionary biology, molecular biology or related field upon hire. A background in genetics and/or molecular and computational biology desired. Postdoc must have excellent writing, communication and critical thinking skills with a proven track record of successfully completing research projects and the writing of manuscript(s) for publication. Prior experience working with *Drosophila* a plus but not necessary. The preferred start date for the postdoc is June 1st, 2024.

**How to apply:** Apply at <https://arizona.csod.com/ux/-ats/careersite/4/home/requisition/18546?c=arizona>. You will need to submit a 1) cover letter briefly outlining the candidate's fit to the position and future goals 2) curriculum vitae 3) contact information (email and phone) for three references, preferably including doctoral advisor and/or postdoctoral advisor (if relevant) and 4) no more than three relevant publication/manuscript PDFs. Review of applicants will start

immediately and continue until position is filled. Please contact Luciano Matzkin (lmatzkin@arizona.edu) if you have additional questions about the position or visit our lab page, [www.matzkinlab.org](http://www.matzkinlab.org). At the University of Arizona, we value our inclusive climate because we know that diversity in experiences and perspectives is vital to advancing

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## UArkansas Drosophila Systems Genetics Quant Genetics

A postdoctoral research associate position is available in the Zhuang Lab in the Department of Biological Sciences, University of Arkansas. We are looking for highly motivated researchers who are willing to tackle fundamental questions in both basic evolution and biomedical research. Research interests in the Zhuang Lab include understanding the genetic basis of complex trait variation and novel trait evolution, involving the genetic architecture of complex diseases, the origination of genetic novelty and diversity, and the underlying molecular mechanisms. Employing molecular evolution, quantitative genetics, genomics, and bioinformatics, the research group conducts studies on both model organisms, such as fruit flies, and non-model organisms, such as polar fishes.

### Qualifications

\* Ph.D. in Quantitative Genetics, Evolutionary Genetics, Statistical Genetics, or related fields; \* Proficiency in R and Python or other programming languages; \* Experience analyzing omic data sets (e.g. genome, transcriptome, metabolome, etc.); \* Good understanding of evolution and genetics theory and methodology; \* Strong written and oral communication skills, and ability to work independently and in collaboration with others.

### Responsibilities

The postdoc fellow will lead a NIH funded project to investigate cryptic genetic variation and gene-environment interaction underlying complex disease traits related to metabolism using *Drosophila* mod-

els. The primary responsibilities of this position are developing and implementing computational pipelines to carry out genetic mapping analysis, and genome/transcriptome/metabolome wide association studies, interpreting and organizing results into publishable papers and grant proposals. Other responsibilities include data management, mentoring students, and providing bioinformatics support for the lab.

### Application Instructions

Please email Dr. Zhuang (xz036@uark.edu) the following materials:

- (1) CV (includes publications and pre-prints),
- (2) a cover letter outlining previous research experience and future plans, specifically how they are related to the research focus in our lab,
- (3) contact information for two references.

### About the University

Founded in 1871, the University of Arkansas is a land grant institution, classified by the Carnegie Foundation among the nation's top 2 percent of universities with the highest level of research activity (R1 University). The University of Arkansas campus is located in Fayetteville, a welcoming community ranked as one of the best places to live in the U.S. The growing region surrounding Fayetteville is home to numerous Fortune 500 companies and one of the nation's strongest economies. Northwest Arkansas is also quickly gaining a national reputation for its focus on the arts and overall quality of life. Arkansas is a natural wonder of forests, mountains and lakes framed by picturesque rivers and streams. Some of the best outdoor amenities and most spectacular hiking trails are a short drive from campus.

Xuan Zhuang <xz036@uark.edu>

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## UAuckland NZ WildPop imputation

Filling the gaps to better predict adaptive potential in wild populations - imputation from low coverage sequencing

We are pleased to offer a 2-year postdoctoral fellowship based with Dr Anna Santure (<https://profiles.auckland.ac.nz/a-santure>) in the School of Biological Sciences, Waipapa Taumata Rau - The University

of Auckland, Aotearoa New Zealand. This project is an exciting opportunity to assess strategies for genotype imputation to 'fill the gaps' from low coverage sequencing in wild populations. The project will include (i) individual-based modelling to create populations with different levels of structure and genetic variation to test when best to leverage family and/or population variation for imputation, and (ii) the application of optimal imputation methods to our existing low coverage datasets to accurately characterise genetic variation and structure.

Improving and validating our use of low coverage data has direct outcomes for how we handle the generation and analysis of whole genome resequencing data in conservation and evolutionary biology. The candidate will be working alongside a vibrant research group with aligned research interests, including the use of whole genome resequencing data to infer, for example, the ability of taonga (precious) species such as hihi (stitchbird) to adapt and persist, and of invasive species such as common myna to further expand their invasive range. The project will be conducted in collaboration with Dr Audald Lloret-Villas (<https://www.researchgate.net/profile/Audald-Lloret-Villas>) in the Population Genetics Consortium, Arizona State University.

The ideal candidate will have experience in imputation and/or the analysis of whole genome resequencing data and/or individual based modelling, as well as a passion for evolution and conservation biology and a track record of publishing in leading journals. In addition, experience in reproducible pipeline development (Snakemake or Nextflow), Python and/or R, bioinformatics tools and Bash scripting are highly desirable. Candidates who do not fully meet the previous criteria but have experience in genomics, bioinformatics, computational biology, evolutionary biology, statistics, quantitative genetics or population genetics are also encouraged to apply.

The postdoctoral fellowship is available with a salary range of approximately NZD \$88,194 - \$98,533 p.a. (depending on experience as assessed by an independent committee). The start date is negotiable but must begin before 1 May 2024. We welcome informal enquiries, please contact Anna Santure at [a.santure@auckland.ac.nz](mailto:a.santure@auckland.ac.nz).

Applications must be emailed to [a.santure@auckland.ac.nz](mailto:a.santure@auckland.ac.nz) by 11:59pm Monday 15 January 2024 (New Zealand time) to be considered. Please include a cover letter and your CV highlighting how you can meet the skills and experiences detailed above.

Applicants must have completed or submitted their PhD at time of application. We welcome applications from all

qualified persons. International applicants are welcome to apply. Our group (<https://asanture.wordpress.com/people/>) aims to be inclusive, representative, collaborative and fun.

The University is committed to meeting its obligations under Te Tiriti o Waitangi and achieving equity outcomes for staff and students in a safe, inclusive, and equitable environment. For further information on services for Māori, Pasifika, women, LGBTQI-ATakatāpuiMVPFAFF+, people with disabilities, parenting support, flexible work and other personal circumstances go to [www.equity.auckland.ac.nz](http://www.equity.auckland.ac.nz). Anna Santure <[asanture@gmail.com](mailto:asanture@gmail.com)>

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## UBari

### EvolutionaryTranslationalGenetics

Position: Post-graduate/Post-Doctoral Researcher in Evolutionary Translational Genetics Location: University of Bari, Italy

The Department of Biosciences, Biotechnology, and Environment at the University of Bari invites applications for a 24-month Post-Graduate/Post-Doctoral position. The successful candidate will join a project focused on characterizing the genetic architecture of addiction and related traits, incorporating an evolutionary perspective. This will involve the analysis of genetic and neural endophenotypic data, along with associated life history information for all participants.

\*Requirements\*:

- Minimum MSc degree or equivalent in scientific subjects; a PhD is a plus
- Experience or keen interest in evolutionary genetics
- Proficiency in data analysis methods

\*Responsibilities\*:

- Analyzing genetic and neural data
- Contributing to evolutionary perspectives on addiction traits
- Collaborating with a multidisciplinary team

\*Start Date\* From March to September 2024 \*Salary\* Approximately 1,500 euro after income taxes (Bari offers a cost-effective living compared to other Italian regions)

Application Deadline: CVs must be submitted by December 20th. The official deadline for formal applica-



tions is January 3rd, 2024.

To apply, please send your CV to Mario Ventura at \*mario.ventura@uniba.it.\* For inquiries or further information, feel free to contact Prof. Ventura.

The University of Bari is an equal-opportunity employer and encourages applications from underrepresented groups.

Francesco Montinaro <francesco.montinaro@gmail.com>

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## UBrest France MarineFishesPopGenomics

Population genomics of pollack and red mullet in NE Atlantic, using low coverage Whole-Genome Sequencing

A 25 months Post-Doc is proposed at the University of Brest, UBO (LEMAR laboratory) to perform a population genomics study of two fish species of high commercial interest in European fisheries, the pollack, *Pollachius pollachius*, and red mullet, *Mullus surmuletus*, in the North-East (NE) Atlantic. A particular attention will be paid to the population structure in the Bay of Biscay and adjacent waters. This project is based on a collaboration between UBO, the National Museum of Natural History (MNHN), Ifremer, and professional fishers.

**Background and scientific context:** The development of relevant fisheries management plans relies on the accurate assessment of stock boundaries. In the Bay of Biscay, the management of a certain number of exploited species, known as 'Data Poor Species', is largely hampered by a significant lack of knowledge concerning their biology and ecology, notably concerning their population structure. This is particularly the case for the pollack, *P. pollachius*, and the red mullet, *M. surmuletus*. In this context, a population genomics study will be conducted to explore the spatio-temporal structure of pollack and red mullet populations in the Bay of Biscay and surrounding waters. With this aim, a lcWGS (low-coverage Whole-Genome Sequencing) will be conducted on both species, which is a powerful and cost-effective approach for empirical population genomics. This strategy captures a broader range of genetic variation across the entire genome (from common genetic variants such as SNPs to structural variants such as chromosomal inversions or copy number variants), offering a more

comprehensive view of genetic variation at population-scale. These investigations will be compared to previous data obtained by a Pool-Seq approach. Up to 1000 individual pollack samples and 1000 red mullet samples collected from Portugal to northern Scotland will be sequenced. These samples include temporal sample collections that cover a period up to 10 years. Additional samples collected in 2023 will be added to the dataset.

**Detailed post-Doc project:** The Post-Doc will be in charge of conducting the preparation of lcWGS libraries and all analysis downstream to sequencing at LEMAR laboratory (DNA samples have already been extracted and preparatory work for lcWGS has been conducted). Sequencing will be conducted on external platforms. Bioinformatic analysis will be conducted using a calculation cluster located at Ifremer (Datarmor). This genomic study will aim at addressing two issues: —

1. Firstly, the population genetic structure of pollack and red mullet will be investigated over the distribution range of both species from Portugal to northern Scotland. The goal of this first task will be to assess the level of evolutionary divergence among the populations of both species in their Atlantic distribution area. —
2. Secondly, genomic data will be applied to assess connectivity patterns in the Bay of Biscay and surrounding waters. A particular effort will be conducted to apply genomic data to management issues in the Bay of Biscay.

**Profile of the candidate:** The candidate must have a strong background in population genomics and bioinformatics. A demonstrated aptitude to conduct WGS data analyses will be an important plus. A significant experience in DNA sequencing library preparation will be appreciated. In addition, the post-doc is expected to be particularly interested into the application of population genomics data in fisheries management, since he/she will have to regularly interact with fishermen and fisheries managers.

**Working place:** The post-doc will be hosted at Laboratory of Environmental Marine Sciences (LEMAR). This laboratory is located in the European Institute for Marine Studies (IUEM), which is a pluridisciplinary institute dedicated to the field of marine and coastal sciences. The IUEM is located in Plouzané, about 8km away from the center of Brest. The LEMAR is an interdisciplinary laboratory that gathers a total of ca. 150 researchers and technicians and 50 PhD students. The LEMAR includes a molecular ecology team, with all the necessary equipment to conduct most of the labwork (DNA extraction, PCR amplification, etc..) and construct DNA libraries. Both French and English are used as spoken languages in the laboratory.

**Salary:** The salary is 2 013,98 euro /month net and 47

days-off/year.

Application: This will include 1/ a cover letter presenting the research interests and relevant experience of the applicant (max. 2 pages), 2/ a curriculum vitae including the list of publications, 3/ copies of academic diplomas, and 4/ the names and e-mail addresses of two referees. Applications should be sent as a single pdf to [gregory.charrier@univ-brest.fr](mailto:gregory.charrier@univ-brest.fr). The deadline for application is extended

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## UCalifornia Irvine GeneticsOfComplexTraits

Post-doctoral fellow in the Genetics of Complex Traits

We have several projects related to the Genetics of Complex Traits. A common theme in the lab is the use of multiparent populations to dissect complex traits. We are exploiting these multiparent populations in experimental evolution studies in yeast, extreme QTL mapping in *Drosophila*, and in experiments to unravel pathogen reservoir competency in *Peromyscus* mice.

Some representative publications are here:

<https://pubmed.ncbi.nlm.nih.gov/25175100/> <https://pubmed.ncbi.nlm.nih.gov/36366952/> <https://pubmed.ncbi.nlm.nih.gov/35100395/> <https://pubmed.ncbi.nlm.nih.gov/35143664/> Applicants with training in population genetics, quantitative genetics, and/or statistical genetics are especially encouraged to apply. Project will involve large datasets and bioinformatics, especially in R. Excellent written and oral communication skills and the ability to author manuscripts are further important skills. The position is best suited to someone who wishes to expand their expertise and establish independence at the interface of data/computational science and genetics.

U.C. Irvine is one of the ten best public universities in the U.S. We have an excellent and interactive group in evolutionary genetics. UCI is located in Orange County California. UCI is located a short distance from white sand beaches and Orange County is one of the most ethnically and culturally diverse areas in the world.

The position has a flexible start-date and is available for an initial period of two years, with a possibility for extension subject to a satisfactory performance.

To apply go to the following recruitment URL and upload the information below: <https://recruit.ap.uci.edu/-JPF08730> \* curriculum vitae, including a full list of publications and pre-prints

\* a short (one-page maximum) statement describing past research experience, why you want to join us, future research interests, and you as a person.

\* contact information for three references

Please contact Tony Long ([tdlong@uci.edu](mailto:tdlong@uci.edu)) with any questions. Informal inquiries are welcome and encouraged! It is best to let me know you plan to officially apply.

The University of California, Irvine is an Equal Opportunity/Affirmative Action Employer advancing inclusive excellence. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, protected veteran status, or other protected categories covered by the UC nondiscrimination policy.

Anthony Long <[tdlong@uci.edu](mailto:tdlong@uci.edu)>

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## UCalifornia SantaBarbara MarineModeling

Postdoctoral Researcher in SeaOtter-Fisheries Modeling, Marine Science Institute, University of California, Santa Barbara

Info & Apply: <https://recruit.ap.ucsb.edu/JPF02661>  
POSITION DESCRIPTION

We seek a highly motivated postdoctoral scholar to undertake modeling work to quantify the effects of seaotters on finfish and benthic invertebrate abundance and composition on the California Coast. The modeling exercise will include exploring potential community effects of otter introductions in new areas, based on existing and new habitat suitability estimates. Working closely with collaborators at UC Berkeley and UC Santa Barbara, as well as additional colleagues, the postdoctoral scholar will take the lead in defining novel scientific questions

and publishing and communicating research that leverages existing biological and environmental data. New field work is not anticipated to be a significant element of this 2-year appointment.

The research work will be conducted solely in California and the on-site work location is at UC Santa Barbara and/or UC Berkeley. Salary is competitive and commensurate with the applicant's qualifications and experience.

Full benefits package included. Postdoctoral benefits are included (<https://c2mb.ajg.com/uc/home/>).

Position is open until filled.

The Department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching and service as appropriate to the position.

Department: <https://msi.ucsb.edu/> **QUALIFICATIONS**

Basic qualifications (required at time of application):

Applicants must have completed all requirements for a PhD program (or equivalent) except the dissertation in ecology, fisheries science, environmental sciences, or a related field at the time of application.

Additional qualifications (required at time of start):

Applicants must have a doctoral degree in ecology, fisheries science, environmental sciences, or a related field at time of appointment.

Preferred qualifications:

The ideal candidate will:

- demonstrate a high degree of statistical fluency (e.g., general and generalized linear models, mixed effects models, Bayesian statistics), and applying such methods to noisy time-series data from a diverse set of biomonitoring programs
- have considerable experience programming in R and familiarity with Python and ArcGIS
- adopt a rigorous and scholarly approach to their science, with a strong track record of presentations and publications
- be a respectful, professional, and reliable team player who values creating and maintaining strong collegial bonds
- have excellent time management skills; accomplish research goals by creating realistic but ambitious plans and initiating open communication when plans must be modified
- have strong communication and diplomacy skills to

give and receive feedback, celebrate successes, and constructively confront challenges

- have generally fluency understanding how insights from ecological modeling can be usefully linked to applied conservation.

## POSITION OVERVIEW

Position title: Postdoctoral Researcher in SeaOtter-Fisheries Modeling

Salary range: The posted UC system-wide salary scales set the minimum pay determined by rank and step at appointment. See Table 23 for the salary range at UCSB. A reasonable estimate for this position is \$64,480 to \$77,327. "Off-scale salaries" and other components of pay, i.e., a salary that is higher than the published system-wide salary at the designated rank and step, are offered when necessary to meet competitive conditions.

Percent time: 100%

Anticipated start: The position start date is negotiable and ideally is anticipated to start in May 2024 or later.

Position duration: Initial appointment for 2 years with the possibility of (up to) a one year reappointment.

## APPLICATION WINDOW

Open date: November 27, 2023

Next review date: Wednesday, Jan 3, 2024 at 11:59pm (Pacific Time)

Apply by this date to ensure full consideration by the committee.

Final date: Wednesday, Jul 31, 2024 at 11:59pm (Pacific Time)

Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

## APPLICATION REQUIREMENTS

Document requirements

Curriculum Vitae - Your most recently updated C.V.

Cover Letter

Statement of Contributions to Diversity - We encourage applicants to submit an optional Statement of Contributions to Diversity. These statements, if submitted, will be reviewed for evidence of teaching, research, professional and/or public service contributions that promote diversity, equal opportunity and equitable access. (Optional)

Reference requirements

3 required (contact information only)

The search committee will contact references of the top candidate(s)

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## UChicago Theoretical Population Genetics

Postdoctoral Scholar Position available in:

### THEORETICAL POPULATION GENOMICS

A postdoctoral scholar position is available in the research group of Matthias Steinrücken in the Department of Ecology and Evolution at the University of Chicago. In the group, we are developing theoretical, computational and statistical methods for population genomics analysis. Potential projects will be in the context of NIH funded research on developing population genetic methods to detect population structure and adaptation using modern and ancient genomic datasets. Some specific projects include developing Coalescent Hidden Markov Models to infer population structure, as well as linkage-based approaches to characterize the genomic landscape of natural selection, but projects are flexible based on the scholar's interest.

The Department of Ecology and Evolution has a very collaborative and unique environment with expertise in theoretical and empirical approaches to questions in ecology and evolutionary genetics. Moreover, the University of Chicago provides ample opportunities for interactions with outstanding researchers in overlapping areas, particularly in the Departments of Statistics, Human Genetics, and Genetic Medicine.

Candidates should have a PhD in Statistics, Mathematics, Biology, Computer Science, or in a related field with substantial quantitative training. Research experience in population genetics is beneficial, but not required. The start date is negotiable, and the salary will be competitive and based on level of experience.

To apply, please send your application to [steinrue@uchicago.edu](mailto:steinrue@uchicago.edu). Your application should include a brief cover letter, a cv, a one-page description of past research and future interests, and contact information for three references. Applications will be consid-

ered on a rolling basis until the position is filled, but should be received by December 21, 2023 to ensure consideration. Candidates from diverse backgrounds are particularly encouraged to apply. Please see <https://voices.uchicago.edu/steinrueckenlab/> to learn more about the group and send any questions regarding the position to [steinrue@uchicago.edu](mailto:steinrue@uchicago.edu).

Matthias Steinrücken, PhD

Assistant Professor Department of Ecology and Evolution University of Chicago <https://voices.uchicago.edu/-steinrueckenlab/> Equal Employment Opportunity Statement: All University departments and institutes are charged with building a faculty from a diversity of backgrounds and with diverse viewpoints; with cultivating an inclusive community that values freedom of expression; and with welcoming and supporting all their members.

We seek a diverse pool of applicants who wish to join an academic community that places the highest value on rigorous inquiry and encourages diverse perspectives, experiences, groups of individuals, and ideas to inform and stimulate intellectual challenge, engagement, and exchange. The University's Statements on Diversity are at <https://provost.uchicago.edu/statements-diversity>. The University of Chicago is an Affirmative Action/Equal Opportunity/Disabled/Veterans Employer and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, gender identity, national or ethnic origin, age, status as an individual with a disability, military or veteran status, genetic information, or other protected classes under the law. For additional information please see the University's Notice of Nondiscrimination ([https://www.uchicago.edu/-about/non\\_discrimination\\_statement/](https://www.uchicago.edu/-about/non_discrimination_statement/)).

Job seekers in need of a reasonable accommodation to complete the application process should call 773-834-3988 or email [equalopportunity@uchicago.edu](mailto:equalopportunity@uchicago.edu) with their request.

Matthias Steinrücken <[steinrue@uchicago.edu](mailto:steinrue@uchicago.edu)>

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## U Denver UMass Deer Mouse Botfly Interactions

This is a repost. Best consideration date approaching!

Postdoc in evolutionary ecology of host-parasite interactions at University of Denver and University of Massachusetts Amherst

**Position Summary** The Velotta Lab at the University of Denver (DU) and the Senner Lab at the University of Massachusetts Amherst (UMass) are looking for a postdoctoral research associate. The position will support a collaborative NSF-funded project, along with the Cheviron Lab at the University of Montana (UMT), studying the influence of parasitic botflies on the physiology, demography, and evolutionary biology of deer mice (*Peromyscus maniculatus*) in the Colorado Rockies in the context of climate change. The preferred candidate will have a PhD in Ecology and Evolutionary Biology, or a related field, and will have experience with fieldwork and/or small mammal trapping, as well as whole-animal respirometry, demographic analyses, or climate change modelling. The initial position will be for 9 months through DU, but funding is available for up to 3 additional years through UMass. The start date is negotiable.

**Essential Functions** The candidate will lead fieldwork in Kansas and Colorado along an elevational transect that includes five sites and spans from 300-4200 m of elevation. Fieldwork includes small mammal capture-mark-recapture, whole-animal respirometry, and blood and tissue collection. Fieldwork takes place in both prairie and high-altitude environments, which can include rugged, mountainous terrain. This work includes the handling of live, wild rodents. The candidate will lead or contribute to publications stemming from current project fieldwork, as well as past project data collection, which includes seven years of data from along the elevational transect. The candidate will work in a collaborative environment alongside graduate and undergraduate students at UMass, DU, and UMT.

**Required Qualifications** PhD in Ecology and Evolutionary Biology or related field prior to the start date. Demonstrated ability to conduct independent research. Commitment to fostering an inclusive work environment.

**Preferred Qualifications** Fieldwork experience with small mammals, especially in alpine habitats. Experience han-

dling rodents or other small mammals. Strong quantitative skills. Experience with demographic analyses and/or species distribution models. Evidence of leadership, mentoring, and outreach.

See this link for full job advertisement and instructions on how to apply: <https://jobs.du.edu/en-us/job/-496963/postdoctoral-research-associate> For best consideration, please submit your application materials by 4:00 p.m. (MST) December 22, 2023

Questions can be directed at [jonathan.velotta@du.edu](mailto:jonathan.velotta@du.edu), [nsenner@umass.edu](mailto:nsenner@umass.edu), and [zac.cheviron@mso.umt.edu](mailto:zac.cheviron@mso.umt.edu)

Jonathan Velotta Assistant Professor Department of Biological Sciences University of Denver 2101 E Wesley Ave Denver, CO 80210

Office: SGM 280 Twitter: @JonVelotta < <https://twitter.com/JonVelotta> > [velottalab.com](http://velottalab.com) he/him

[Jonathan.Velotta@du.edu](mailto:Jonathan.Velotta@du.edu)

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## U Edinburgh Population Genetics

Postdoctoral Research Associate Position available at the Institute of Ecology and Evolution, University of Edinburgh, UK.

Link below for the full advert, including a complete job description and the application process: [https://elxw.fa.em3.oraclecloud.com/hcmUI/-CandidateExperience/en/sites/CX\\_1001/job/9095](https://elxw.fa.em3.oraclecloud.com/hcmUI/-CandidateExperience/en/sites/CX_1001/job/9095)

Three year position, application deadline is the 24th January 2024. Please contact me if you have any questions. Further details below.

\*\*\*

Grade UE07 (37,099 - 44,263) College of Science and Engineering School of Biological Sciences Institute of Ecology and Evolution Full time contract (35 hours per week) Fixed Term (36 months)

A postdoctoral research position is available in the lab group of Dr Matthew Hartfield, funded by an ERC Consolidator Grant/UKRI Frontier Research Grant (Select-Self - Rethinking Evolution in Self-Fertilising Species). I am looking for an enthusiastic and motivated postdoctoral researcher who is interested in evolutionary genetics and mating-system evolution.

The focus of the project will be to: 1) Develop stochastic

population-genetic models to determine the signatures of genetic adaptation in self-fertilising species, especially when proceeding via a multi-gene (polygenic) process. 2) Translate these models into inference methods to determine the nature of adaptive evolution from genome sequence data, with applications to a large dataset of several self-fertilising *Caenorhabditis* species.

There will also be scope for the postdoc to (i) consider how these processes are pertinent in response to anthropogenic changes; (ii) develop their own research plans with a view to becoming an independent investigator.

The project will involve collaboration with partners within the UK and overseas. There are substantial funds within the grant for computing and conference attendance. The project will be funded for three years in the first instance, with a possibility for extension based on performance and financial availability.

Your skills and attributes for success: - Skills with theoretical and computational population genetics. - Experience with analysing genome sequence data. - PhD in a quantitative biological discipline (or another quantitative subject, e.g., computer science). - Knowledge of computational biology tools, including R and command-line interfaces. - Evidence of creativity and problem-solving to tackle scientific problems. - Ability to work independently.

Matthew Hartfield [m.hartfield@ed.ac.uk](mailto:m.hartfield@ed.ac.uk) <https://hartfieldlab.com> Matthew Hartfield Room 1.19 Institute of Ecology and Evolution The University of Edinburgh Ashworth Laboratories Charlotte Auerbach Road Edinburgh EH9 3FL, UK

Tel: +44 (0)131 650 8632 Email: [m.hartfield@ed.ac.uk](mailto:m.hartfield@ed.ac.uk) Web: [hartfieldlab.com](http://hartfieldlab.com) The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. Is e buidheann carthannais a th' ann an Oilthigh Dh'Àrd-Ìdeann, clàraichte an Alba, àireamh clàraidh SC005336.

Matthew Hartfield <[m.hartfield@ed.ac.uk](mailto:m.hartfield@ed.ac.uk)>

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## UGlasgow ParasiteEvol

Post-doc Job position: University of Glasgow UK Parasite Evolution

We have an exciting opportunity for a Research Associate to make leading contribution to a UK Medical Research Council project Exploring the adaptive role of genomic instability in *Trypanosoma cruzi* working with Profs Martin Llewellyn, Jamie Costales, Richard McCulloch, JC Dujardon, Gosia Domagalska, Carlos Robello and Thomas Otto.

*Trypanosoma cruzi*, which causes Chagas disease and infects c.7 million people in Latin America is the most important parasitic disease in the region in terms of deaths and morbidity. However, we know very little about its biology and evolution, especially how it avoids host immunity to establish life-long infections in its mammalian host. The candidate will join a consortium of researchers in Ecuador, Uruguay, Antwerp (Belgium) and the UK to study this most neglected of neglected tropical diseases.

The successful candidate will study genomic instability in *T. cruzi* in vitro and in vivo (animal models, insect vectors and a cohort of clinical cases). The candidate will undertake genetic modification of the parasite to understand mechanisms of genome instability and accelerated evolution, as well as to undertake single cell sequencing experiments and whole genome sequencing analysis of parasites from different hosts and vectors.

Project partners are world leaders in parasite genomics, single cell biology and *Trypanosoma cruzi* biology. The candidate will join an exciting, friendly and experienced research team to drive forward our understanding of this fascinating but neglected parasite.

The post will involve a mix of dry and wet-lab work with opportunities for secondment across Europe and Latin America.

This post is full time and has funding available for up to 36 months.

Informal enquiries may be directed to Professor Martin Llewellyn [Martin.Llewellyn@glasgow.ac.uk](mailto:Martin.Llewellyn@glasgow.ac.uk).

Closing Date: 11th January 2024

SBOHVM, University of Glasgow

Room 207, Graham Kerr Building, G128QQ

Tel 0044 1413305571 Mob 0044 7968587547 <https://www.llewellynlab.com> [www.salmosim.co.uk](http://www.salmosim.co.uk) SBOHVM, University of Glasgow

Room 207, Graham Kerr Building, G128QQ

Tel 0044 1413305571 Mob 0044 7968587547 <https://www.llewellynlab.com> [www.salmosim.co.uk](http://www.salmosim.co.uk) Martin Llewellyn <Martin.Llewellyn@glasgow.ac.uk>

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### UGlasgow PDF PhD ParasiteEvolution

1) Graduate Position: University of Glasgow, UK ParasiteEvolution

Chagas disease is the most important parasitic in Latin America, killing 12,000 people every year. Genome sequencing of agent, parasite *Trypanosoma cruzi*, reveals a genome in a constant state of re-arrangement. The adaptive value of such genomic re-arrangements and evolutionary consequences of this shape-shifting may hold the key to understanding, and addressing, many intractable aspects of *T. cruzi* biology.

In this PhD program the student will leverage advances in genomics, genetic manipulation, animal disease models to understand how *T. cruzi* genomic re-arrangements may underpin long term survival and evolution in the mammalian host as well as parasite resistance to front-line and next generation drugs. An expert and experienced supervisory team is in place to support the PhD, with opportunities for research and training in Ecuador, Uruguay and Belgium.

APPLICATION DEADLINE: Friday 9th February 2024

Supervisors: Martin Llewellyn Jamie Costales Richard McCulloch Panas Kotsantis Mick Urbanick

Martin.llewellyn@glasgow.ac.uk

2) Post-doc Job position: University of Glasgow UK ParasiteEvolution

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and Thomas Otto.

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Closing Date: 11th January 2024

SBOHVM, University of Glasgow

Room 207, Graham Kerr Building, G128QQ

Tel 0044 1413305571 Mob 0044 7968587547 <https://www.llewellynlab.com> [www.salmosim.co.uk](http://www.salmosim.co.uk) Martin Llewellyn <Martin.Llewellyn@glasgow.ac.uk>

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### UGothenburg ConservationGenomics

Postdoc in natural science, specializing in conservation genomics

Ref PAR 2023/1378

The University of Gothenburg tackles society's challenges with diverse knowledge. 56 000 students and 6 600 employees make the university a large and inspiring place to work and study. Strong research and attractive study programmes attract researchers and students from around the world. With new knowledge and new perspectives, the University contributes to a better future.

Postdoc in natural science, specializing in conservation genomics

At the Department of Biological and Environmental Sciences (BioEnv) we have teaching and research activities that stretch from the alpine ecosystem, through forests, cultivated land and streams, all the way into the marine environment. In these environments we study different levels of biological organisation from genes, individuals and populations, to communities and ecosystems. We work within ecology, evolution, physiology, systematics and combinations of these fields in order to understand the impact of natural and anthropogenic changes of the environment.

The University of Gothenburg hosts two marine research stations, in addition to the main campus located on Medicinareberget in Gothenburg: The Kristineberg Marine Research Station located in Fiskebäckskil and the Tjärnö Marine Laboratory, located near Strömstad. The current position will be placed partly at the Tjärnö Marine Laboratory and partly at the main campus in Gothenburg.

We offer

The University of Gothenburg is a state authority, which means special benefits, more holidays and a great pension. You can read more about our employment benefits here.

Subject area

Biology

Subject area description

This project will focus on genomic connectivity patterns in marine habitat-forming species, associated fauna and top predators in the Skagerrak sea. The overall aim is to investigate the locations of barriers to dispersal affecting multiple species, and how this in turn can affect the functioning of the coastal ecosystem. A part of the task will be to design a multi-species genotyping platform (SNP array) which could be used as a resource by the scientific community. The project is performed as a part of the EU Horizon-funded MARHAB consortium, which includes partners in Norway, Denmark, France and Portugal, and part of the task will also be to use

the connectivity data to inform managers about actions in order to support a resilient spatial planning process in European coastal waters in the future.

Duties

Techniques used within the project will involve development of a SNP array, molecular lab work (DNA extractions and DNA quantification), bioinformatics and population genomic data analysis. Some of the work will be conducted in the field, collecting tissue samples. Specific research topics associated with the research project include connectivity analyses, estimating dispersal from genomic data, and also possibly to support biophysical modelling of transport in the Skagerrak area. It is also possible to join other ongoing projects within the larger MARHAB project, depending on the skills and interests of the candidate and time allowing. There will also be opportunities for taking part in departmental teaching activities in population genetics courses. The candidate will work in close collaboration with a network of scientists both nationally and internationally.

Eligibility

The eligibility criteria for employing teaching staff are set out in Chapter 4 of the Higher Education Ordinance and in the Appointment Procedure for Teaching Posts at the University of Gothenburg.

To be eligible for appointment as a postdoc, the applicant is required to have a doctoral degree or a foreign degree that is deemed to be equivalent to a doctoral degree. This eligibility requirement must be met before the employment decision is made. In the first instance, those who have completed their degree no more than three years prior to the end of the application period shall be considered. Those who have completed their degree more than three years prior to the end of the application period may also be considered in the first instance if special grounds exist. Special grounds relate to leave of absence due to illness, parental leave, commissions of trust within union organizations, service within the defense services or other similar circumstances, as well as clinical service or service/assignment relevant to the subject area.

Assessment criteria

Required qualifications for the employment:

- To be eligible for appointment as a postdoc, the applicant is required to have a doctoral degree in molecular biology, population genetics (genomics) / marine biology or equivalent.
- Excellent communication skills, written and spoken, in English are necessary since we work in an international environment.
- The ability to work independently in the field.





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## UKentucky InsectGeneticTechnologies

Summary: The Teets Lab at University of Kentucky is recruiting a postdoc to work on an project through an NSF IUCRC to develop tools for genetic manipulation (and other applications) in insects. This work will facilitate high throughput genetic screens in non-model species for functional and evolutionary genetics studies. Experience with insects is a plus but not necessary. Our lab is a large, collegial group with diverse interests, and we welcome people from all backgrounds to apply. See details below!

Postdoctoral Associate in Insect Genetic Technologies  
Location Department of Entomology University of Kentucky, Lexington, KY

Contact Nick Teets Associate Professor Email: [n.teets@uky.edu](mailto:n.teets@uky.edu) Phone: (859)-257-7459 Lab website: [www.teetslab.com](http://www.teetslab.com) Description: The Teets and Palli labs at University of Kentucky are seeking a postdoctoral associate to lead a project on novel approaches for making genetically modified insects. The postdoc will use sonoporation to load CRISPR/Cas9 and other genetic reagents in insect eggs that are challenging or impossible to microinject. Further, the candidate will explore the use of sonoporation to load compounds into diverse species of economically important insects. This work will expand the capacity of genetic technologies in insects and provide methods for high-throughput genetic screens. The candidate will also have the opportunity to work on other research projects related to their particular interests. Specific duties will include designing and conducting bioassays to optimize sonoporation in insects, preparing data for presenting at conferences and publishing in peer-reviewed scientific journals, and supervising undergraduate students. This work is funded by the Center for Arthropod Management Technologies, an Industry/University Collaborative Research Center supported by NSF.

Qualifications: Applicants should have a PhD in entomology, molecular biology, or a related field. Strong

molecular skills and experience working with diverse insects are preferred but not required. Applicants should have a demonstrated record of research productivity, as evidenced by peer-reviewed publications, conference presentations, and/or grant funding. Desired qualifications include the ability to work in a team, experience mentoring undergraduate students, and strong oral and written communication skills.

Location: The Department of Entomology at University of Kentucky is consistently ranked in the top 10 nationally and features an excellent mix of basic and applied research. The department has a proven track record of job placement in a variety of sectors, including academia, industry, government science, and extension, to name a few. Lexington, KY is an affordable mid-sized city that is family friendly and ranks 10th in the US in the percentage of residents with a college degree.

Start Date and Compensation: The position is anticipated to be available to start in March 2024, but the start date is negotiable. The position includes a minimum salary of \$47,500 plus benefits. Benefits for Postdoctoral Scholars are summarized here: <https://www.uky.edu/postdoc/benefits> . Application Procedures: Interested applicants should create a single PDF containing 1) a cover letter summarizing research interests, professional experience, and career goals, 2) a CV including a complete list of publications, and 3) names and contact information for professional references. Submit application materials at the following link: <https://forms.gle/UQ4Nx2jQ7Fy9xyeW9> Review of applications will begin January 15, 2024 and will continue until a suitable candidate is identified.

“Teets, Nicholas M.” <[n.teets@uky.edu](mailto:n.teets@uky.edu)>

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## ULeicester InsectEpigeneticAgeing

Epigenetic of ageing in *Nasonia vitripennis* 1 year post doc deadline 31st of January

<https://jobs.le.ac.uk/vacancies/9250/research-associate.html> “ 1 year post-doc looking at the epigenetics of ageing in the model insect *Nasonia vitripennis*. The Mallon lab has recently discovered an epigenetic clock in these insects and we wish to develop the system by looking at histone modifications in the ageing process. An ability to carry out ChIP-seq in

insects would be especially valuable.”

Prof. Eamonn Mallon Professor of Evolutionary Biology Associate Dean of Research for the College of Life Sciences Adrian Building Room 220 Department of Genetics and Genome Biology University of Leicester LE1 7RH

“Mallon, Eamonn B. (Prof.)” <ebm3@leicester.ac.uk>  
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### UMainz Germany EvolutionInMultitrophicCommunities

The Institute of Organismic and Molecular Evolution at the University of Mainz, Germany, invites applications for two postdoc positions for evolutionary biology in the department of Evolutionary Plant Sciences, headed by Prof Shuqing Xu (<https://plant-x.uni-mainz.de/>).

The successful candidate may start on the 1st of Feb 2024, or as early as possible. The salary will initially be provided for three years, with the possibility of an extension to five years.

In this five-year ERC funded project, the candidate will work on the the real-time evolution in a multitrophic community using use the state-of-the-art genomic and ecological tools. During the project, the candidate will mature his/her scientific skills and develop independence in project planning and management skills.

Requirements: We are looking for a highly motivated researcher with a doctoral degree, or an equivalent thereof, in community ecology, evolutionary genetics, bioinformatics, or computer science. The candidate is expected to design, conduct and organize the projects independently. A training background in bioinformatics, evolutionary genetics/genomics or community ecology is preferred. Applicants must demonstrate experience in statistics or genomics or field ecology. Experience with molecular biology, quantitative genetics, and computational modelling is a plus. Our group consists of people of various nationalities and teamwork is essential for all projects in the group. Therefore, excellent communication skills, as well as proficiency in spoken and written English, are expected. Good knowledge of German is a plus.

The University of Mainz hosts many excellent scientific institutions (<http://www.uni-mainz.de/eng/>), and

Mainz is a historic city located on the Rhine River with many students and a rich social and cultural life.

Applications must be in English and include: (1) a motivation letter stating the research interests with reference to the stated requirements in no more than two pages, (2) a detailed CV including academic and extracurricular achievements, as well as details of all research experience, (3) an abstract of the PhD thesis, and (4) contact details of at least two referees.

Applicants should send their documents in one single PDF file to Prof Shuqing Xu (shuqing.xu@uni-mainz.de) with the subject line “EvolCommunity Postdoc Application iÂ¿iÂ½” Your Name“. The application review will commence on 31st December 2023. The position will remain open until filled.

Shuqing Xu <shuqing.xu@uni-mainz.de>

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### UOulu Finland BiodiversityLandscapeChange

Dear Colleagues,

Below please find details for a position working on a new transdisciplinary project on biodiversity loss, landscape change and monitoring in Europe, funded by Biodiversa+. We are looking to hire a three-year postdoc for this project, ideally someone skilled in qualitative data collection methods who is able to design and carry out ethnographic fieldwork and be part of stakeholder workshops in several European countries. The project involves collaboration between anthropologists, geographers, ecologists, and conservation biologists across Italy, Germany, Spain, Austria, Czechia and Finland. The specific disciplinary background for the position is open, and we are happy to consider applicants from anthropology, geography, ecology, biology-and really all fields in between. It would be great if you have background working across one or more disciplines, too.

The deadline for applying is 29 January 2024. Please contact Roger Norum (roger.norum@oulu.fi) if you have any questions about the project or position.

URL for more information and to apply: <https://-oulunyliopisto.varbi.com/what:job/jobID:669209> Roger Norum Cultural Anthropology University of Oulu

Marko Mutanen <Marko.Mutanen@oulu.fi>

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## Uppsala EvolutionFlowerMicrobiome

Postdoctoral position in the evolution of plant microbiomes

A postdoctoral position is available at the Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden, to study the importance floral microbiomes in plant-pollinators interactions. The project will use a combination of microbiomics, transcriptomics, computer vision and plant quantitative genetics to understand the contribution of the floral microbiome to plant reproduction, plant pollinator interactions and pollinator health. The position is funded by a project grant from FORMAS for an initial period of two years. The successful applicant will be hosted by the group of Adrien Sicard in the Department of Plant Biology at Swedish Agricultural University in the Ultuna Campus, Uppsala.

The working atmosphere is highly international and offers exciting opportunities for scientific exchange. Uppsala is a lively university city located close to Stockholm (40 minutes by train) and Stockholm's main international airport (20 minutes by train). The position's starting date is summer/fall 2023, according to agreement.

Qualifications:

Candidates are required to:

- hold a PhD degree in life science with relevant research experience in plant genetics, microbial ecology and/or bioinformatics.
- have prior experience with computational methods for the analyses of biological sequence data and preferably for microbiome analyses.
- have basic molecular biology skills including nucleic acid isolation, library preparation, protocol optimization, bacterial growth assay and sterile techniques.
- strong organization and record-keeping skills to store and analyze data
- excellent English communication and writing skills to present results in groups meeting and conferences and publish results.
- have demonstrated interpersonal skills to collaborate

within a scientific interdisciplinary research team.

Candidates should also be highly motivated, creative and have the ability to take initiative. Prior practical experience in plant quantitative genetics, manipulating insect pollinators and/or field experiments are also assets.

Applications:

Applications should be submitted through the SLU's application portal (<https://www.slu.se/en/about-slu/work-at-slu/jobs-vacancies/>) under the reference SLU.ua.2023.2.5.1-4382 portal by December 29, 2023. Applications must contain (1) a CV with a full list of publication, (2) a description of research experience, (3) a letter of motivation (4) contact information of two to three referees and (5) copies of the PhD diploma (in Swedish or English).

For informal inquiries about the position, please contact [adrien.sicard@slu.se](mailto:adrien.sicard@slu.se)

Dr. Adrien Sicard Swedish University of Agricultural Sciences Uppsala BioCenter PO-Box 7080 Almas Allé 5 SE-75007 Uppsala, Sweden Room D450 Tel. +4618673324

Ni½r du skickar e-post till SLU si½r inneb½r detta att SLU behandlar dina personuppgifter. Fi½r att li½sa mer om hur detta gi½r till, klicka hi½r

E-mailing SLU will result in SLU processing your personal data. For more information on how this is done, [click here](#)

Adrien Sicard <[adrien.sicard@slu.se](mailto:adrien.sicard@slu.se)>

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## UppsalaU DNAmetabarcoding BTI effects

Postdoctoral researcher/ fellow in molecular ecology

A position as a postdoctoral researcher/fellow in molecular ecology is available at the Department of Ecology and Genetics, at the Animal Ecology Program.

The Department of Ecology and Genetics is an international environment with staff and students from all over the world. Our research spans from evolutionary ecology and genetics to ecosystem studies. Learn more at [www.ieg.uu.se](http://www.ieg.uu.se) . We are now looking for a postdoctoral researcher/fellow in Molecular Ecology in to the

program Animal Ecology.

**Project description** We are hiring a postdoctoral researcher for the project “Does biological mosquito control (*Bacillus thuringiensis* var. *israelensis*:s: Bti) affect terrestrial food web structure? The aim of the project is to use a food web-based approach to evaluate how species not directly affected by Bti are indirectly affected by Bti-induced changes of abundance in target species. In a 3-4 chain natural ecosystem we will use DNA metabarcoding to obtain information of resource availability of invertebrates and diet of meso- and top predators. Our study system is a wetland area in central Sweden, where Bti has been applied since 2002. The data set collected will be analyzed with advanced multivariate statistics.

**Duties** You will apply molecular methods as well as statistical methods to analyze and summarize data on invertebrate abundance and diversity in the field (collected in traps) and from fecal samples in vertebrates (birds and bats). The molecular work consists of DNA extraction from readily collected samples, preparation of DNA libraries for next-generation sequencing, and analysing raw sequencing output. The statistical work consists of applying of several multivariate statistical methods.

**Qualifications required** Ph.D. degree or a foreign degree equivalent to a doctoral degree in the area of evolutionary ecology, ecological genetics, molecular ecology or a similar field of knowledge. Documented experience of working with molecular genetic methods, multivariate statistics, and DNA metabarcoding is a requirement. The degree needs to be obtained by the time of the decision of employment. Those who have obtained a PhD degree three years prior to the application deadline are primarily considered for the employment. The starting point of the three-year frame period is the application deadline. Due to special circumstances, the degree may have been obtained earlier. The three-year period can be extended due to circumstances such as sick leave, parental leave, duties in labor unions, etc. Vast experience with molecular and DNA metabarcoding methods as well as bioinformatics (Linux/UNIX and R) is a requirement for the position, and candidates with advanced knowledge on multivariate statistics will be given priority. We attach great importance to personal qualities such as excellent collaboration skills and sense of initiative. Candidates must be able to express themselves in spoken as well as written English.

**Qualifications desired** We are looking for a very independent and skilled person to drive the project forward. The ideal candidate will be a team player who has demonstrated experience in the desired duties as well as

proven proficiency in writing and publishing in English in scholarly journals

**About the employment** Temporary position for 24 months, with a possibility to an extension up to a maximum of 36 months, according to central collective agreement. Scope of employment: full-time. Starting date 2024-06-01 or as agreed. Location: Uppsala Read more about our benefits and what it is like to work at Uppsala University For further information about the position, please contact Professor, Frank Johansson, frank.johansson@ebc.uu.se, +46 18 471 64 88.

**Application instructions** The application should include 1) a letter describing yourself, your research interests, and why you want the position, 2) your CV, 3) a brief description of your education, 4) a copy of your Ph.D. degree and your transcripts, along with a copy of your doctoral thesis, 5) names and contact details of at least two referees (email addresses and phone numbers), 6) relevant publications. The application should be written in English.

You are welcome to submit your application no later than January 31, 2024. UFV-PA 2023/4065. Are you considering moving to Sweden to work at Uppsala University? Find out more about what it's like to work and live in Sweden. Uppsala University is a broad research university with a strong international position. The ultimate goal is to conduct education and research of the highest quality and relevance to make a difference in society. Our most important asset is all of our 7,500 employees and 54,000 students who, with curiosity and commitment, make Uppsala University one of Sweden's most exciting workplaces. Read more about our benefits and what it is like to work at Uppsala University

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## UppsalaU EcologicalPlantGenomics

Position for one Postdoc in Ecological Plant Genomics at the Evolutionary Biology Centre, Uppsala University, Sweden

We seek a Postdoc to join a project examining the genetic and ecological mechanisms behind adaptive population differentiation in plants, and the capacity for

adaptive evolution in natural populations of the plant model organism *Arabidopsis thaliana* in response to environmental change. The research will be conducted within the framework of an international research collaboration. The overarching goals are to identify the genetic basis of local adaptation and variation in key traits involved in adaptation, to characterize the effects, and geographic distribution of genetic variants affecting fitness, and to examine whether adaptive evolution in local populations is constrained by trade-offs and pleiotropy, and/or the fixation of deleterious mutations.

Focus here will be on within-population sequence variation and its relation to quantitative genetic variation in fitness and putatively adaptive traits documented under field conditions. Duties include bioinformatic analysis of whole genome sequence variation, statistical analysis, and the preparation of manuscripts for publication. There will be opportunities for participating in the establishment and monitoring of experiments in the field and under controlled conditions in the lab. Specific subprojects can be tailored to the skills and interests of the successful candidate.

We are looking for a candidate with a keen interest population genomics and bioinformatic analysis, quantitative genetics, and/or evolutionary ecology. Experience of bioinformatic analysis is required. We attach great importance to personal qualities such as ability to work and interact efficiently in a group. Proficiency in English is a requirement.

The successful postdoc candidate should have a PhD completed within 3 years of the application deadline (reasons such as prolonged periods of illness and parental leave can motivate a longer period). The postdoc position lasts for two years, with a possibility to an extension up to a maximum of 3 years.

Deadline for application is 29 January 2024.

Please find the announcement, with all information about how to apply, at:

<https://www.jobb.uu.se/details/?positionId=684222&languageId=1> For informal enquiries, please contact prof Jon Agren, [jon.agren@ebc.uu.se](mailto:jon.agren@ebc.uu.se), +46-70-643 6364.

Jon Agren Department of Ecology and Genetics Evolutionary Biology Centre Uppsala University Norbyvägen 18 D 756 32 Uppsala Sweden

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> Jon Agren <[jon.agren@ebc.uu.se](mailto:jon.agren@ebc.uu.se)>

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## USDA LoganUtah Pollinator eDNA

\*Position: \*Research Biologist - Postdoctoral Research Associate

\*Salary Range: \*\$69,107 - \$89,835

The \*Pollinating Insect Research Unit (PIRU) of the Agricultural Research Service \*is searching for a post-doctoral researcher in Entomology. This is a full-time, \*time-limited appointment initially for 13 months\*, with possible extension(s) of appointment to a total of 4 years contingent on performance and funding availability. The researcher will be working directly with Jonathan Koch and Michael Branstetter in \*Logan, UT\*. The assignment is to develop and test non-lethal, low impact survey methods to obtain as much information as possible on wild bees (e.g., Family, Genus, Species, as applicable) and plant visitation on USFWS refuges in California. The incumbent will be required to conduct field work on USFWS refuges in California during the bee flight season. To achieve non-lethal methods for species identification, the incumbent will use and develop molecular methods, computational skills, high quality photographic imaging methods, and metabarcoding approaches to 1) assemble and analyze new genomic data from eDNA samples and museum specimens to make species-identifications; eDNA samples will be achieved through non-lethal swabbing of bees, collection of flowering plants, and deployment of artificial flowers to attract bee visitors, 2) conduct plant-pollinator interaction assessments and vegetation surveys in the field using high-quality photography; 3) develop a framework for high-quality image and DNA capture of museum specimens to support a reference library for image and DNA-based approaches for species-identification, 4) develop and integrate novel bioinformatics pipelines for genomics, including the use of artificial intelligence methods. The knowledge required for this position is the following: bee ecology, metabarcoding knowledge, conservation genomics, next-generation sequencing, field safety, computer programming (Linux, python, R), and photography. \*Qualification Requirements\*: Ph.D. in biological sciences or related disciplines appropriate to this position. Applicants must meet basic Office of Personnel Management (OPM) Qualification Standard's requirements of the scientific discipline necessary to

perform the duties and responsibilities of this position. Applicants must also meet \*U.S. citizenship or permanent residents who meet certain eligibility requirements may apply\*. Additional information on the employment of non-citizens can be found at: <https://www.afm.ars.usda.gov/hrd/employforeignnationals/>.

To apply for the position please send 1) cover letter detailing your interest and fit for the position, 2) curriculum vitae, 3) contact information for three professional references, and 4) unofficial transcripts to Jonathan.Koch@usda.gov. Review of applications begin on \*Friday, December 29, 2023\*.

\*\*\*\*\*ARS is an Equal Opportunity Employer and Provider\*\*\*\*\*

Jonathan Koch <jonathan.b.koch@gmail.com>

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## USouthFlorida AmphibianBehavioralEvolution

The Yang Lab at University of South Florida seeks a postdoctoral fellow to contribute to a project investigating how sexual imprinting shape sexual selection and divergence dynamics in Neotropical poison frogs. The postdoctoral fellow will lead a lab-based project using a breeding poison frog colony at USF. They are also expected to supervise and mentor graduate and undergraduate students, lead writing peer-reviewed publications, and participate in various lab duties and activities. The project will involve rearing and handling poison frogs, designing and carrying out behavioral assays, analyzing animal color using photography and spectrometer, and analyses of data collected from the project. Developing a fieldwork component in Panama or Peru in this project is possible if desired.

Additional information about Dr. Yang's lab is available at their website: <https://yusanyang.wordpress.com/> Application information: <https://www.higheredjobs.com/> Responsibilities will include:

\* Organize and lead the project \* Work with lab manager on frog colony care and experiment maintenance \* Perform and troubleshoot various behavioral assays (e.g. female preference, male aggression, learning, boldness etc) \* Handle tadpoles, juveniles, and adult frogs for

measurements \* Organize and curate data \* Perform statistical analyses in R \* Lead several peer-reviewed publications from this research \* Present results at scientific conferences \* Supervise and mentor students related to the project \* Perform other duties assigned

QUALIFICATIONS (Education & Experience):

Minimum Qualifications: Ph.D. in Biology, Wildlife Ecology, or similar field, and a record of conference presentation and peer-reviewed publication in academic journals. Applicants should possess the following skill set.

\* Excellent quantitative, analytical, and data management skills \* Excellent scientific writing, figure design, and oral presentation skills \* Excellent organizational skills \* Ability to prioritize, plan, organize, and meet timelines \* Ability to lead, train, and evaluate the performance of assigned personnel \* Desire to learn new skills and work in teams including students, researchers, and faculty \* Respect for diversity, and openness to learn and contribute to the lab's inclusive culture

Preferred Qualifications: Competitive candidates will have demonstrated the following experience:

\* At least 2 years of research in animal behavior, preferably sexual selection \* Experiences working with amphibians \* Experiences with analyzing animal color, including measuring and analyzing reflective spectrums; taking, calibrating, and measuring photographs; using color analysis software (e.g. ImageJ, micaToolbox) \* Demonstrated statistical knowledge and R programming skills

USF Tampa

Information for Applicants

This position is subject to a Level 1 criminal background check. This position is subject to Foreign Influence Screening. House Bill 7017 ("HB 7017") < <https://www.flsenate.gov/Session/Bill/2021/7017> >

Job Opening Number: 35844

Posting Date: 12/07/2023

Posting End Date: 02/05/2024, application review begins immediately.

Duration: This position is full time for one year, subject to renewal for up to 2 more years. The position includes a base salary of \$62,000, plus benefits.

How To Apply

Click on the Apply Now button at [employment.usf.edu](http://employment.usf.edu). Include an updated CV and letter of interest describing your research interests and experiences. These application materials, as well as contact information for at

least three professional references, and a representative first-author publication should also be emailed to Yusan Yang at [yusanyang@usf.edu](mailto:yusanyang@usf.edu). Applications will be read as they are received. The position will be open until filled, with an ideal start date in February 2024.

Thank you, and please don't hesitate to contact me at [yusanyang@usf.edu](mailto:yusanyang@usf.edu) for any questions.

Yusan Yang, Ph.D. (she/her) Assistant Professor  
Department of Integrative Biology University of  
South Florida Office: SCA 126 Website < <https://yusanyang.wordpress.com/> > | Twitter < [https://twitter.com/yusan\\_yang](https://twitter.com/yusan_yang) >

Yu-San Yang <[yusanyang@usf.edu](mailto:yusanyang@usf.edu)>

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## UUtah EmergingFungalPathogens

The Evo-Epidemiology Laboratory at the University of Utah (<https://ksw9.github.io/>) is seeking a postdoctoral fellow to join our group to study the emergence and transmission dynamics of the Valley fever fungus in the American West. The burden of Valley fever disease is expected to dramatically increase under climate change, yet we don't currently know the current distribution of the Valley fever fungus, *Coccidioides*, nor how and where it is expected to spread under climate change.

We are using a variety of approaches including population genomics and phylogeography, field ecology, and species distribution modeling to ask questions about the emergence history and transmission dynamics of the fungus in order to inform projections of its future spread. The postdoctoral fellow would lead work on reconstructing the emergence history of *Coccidioides* across the American West and generate essential genomic datasets and tools for the Valley fever research community.

Our group. We are committed to creating an inclusive, safe research community that, in particular, invites and supports students from groups historically underrepresented in the sciences. We are committed to anti-racist, anti-imperialist, abolitionist research program and group culture. We are highly collaborative lab members are valued as co-constructors of knowledge and part of a supportive research community. Our goal is to ask questions to directly inform public health, in particular, in low-income settings.

Qualifications:

PhD or equivalent in a relevant field including, but not limited to: evolutionary biology, epidemiology, biology, computational biology. Experience writing code in R, Python, or Matlab. Experience with scientific writing, presentations, and dissemination of research. Experience working on highly collaborative teams. Please apply here: <https://utah.peopleadmin.com/postings/-156810a> Katharine S. Walter, PhD (she/her) Assistant Professor <https://ksw9.github.io/> University of Utah Division of Epidemiology

Katharine Walter <[Katharine.Walter@hsc.utah.edu](mailto:Katharine.Walter@hsc.utah.edu)>

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## UUtah HumanBioinformatics

The Ilardo Lab, University of Utah, Department of Biomedical Informatics

Job Summary: The Ilardo Lab at the University of Utah is seeking a highly independently motivated candidate with and a demonstrated record of productivity and publications in addition to a strong commitment to ethical research. We use computational and statistical methods to investigate evolutionary genetics in modern human populations. A central aim in the lab is to identify and understand genetic variation contributing to adaptation by using data from multiple sources. We pair genetic, physiological, and health record data from modern human populations with the goal of translating these findings for the treatment of disease.

A successful candidate will develop and apply computational analyses to genomic datasets to characterize population history and adaptation. Responsibilities may include conducting research, attending regular lab meetings, mentoring graduate trainees, and preparing research results for publication and presentations at scientific meetings. During the project, the candidate will mature their scientific skills and develop independence in project planning and management.

Qualifications: Ph.D. or equivalent in genetics, genomics, computational biology or related fields and a demonstrated record of productivity and publications. The candidate must also have experience with programming and genomic data analysis, and a commitment to ethical research.

Preferred qualifications: Experience with any of the following: computational genomics methods development, long read sequencing data, large genetic cohorts such as the UK Biobank, biomedical physiology.

Compensation rate: \$75,000 - \$100,000 DOE

Required documents: CV, Cover Letter, names of 3 references

Interested candidates should apply through the University of Utah's employment website: <https://employment.utah.edu/salt-lake-city-ut/data-scientist/-7AE509F148154328B5EFDDADFC8EAA2D/job/melissa.ilardo@utah.edu>

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## UWashington Seattle ChinookSalmonGenomics

Postdoctoral Scholar Position:

Chinook salmon life-history genomics - University of Washington and Northwest Fisheries Science Center, Seattle Washington USA

This is a joint appointment at UW's Molecular Ecology Research Lab and NOAA's Northwest Fisheries Science Center. The successful candidate will use bioinformatics, statistical genomics, and evolutionary theory to address a wide range of conservation-related problems, from mapping quantitative trait loci to historical biogeography and demographics. This person will have the opportunity to be at the forefront of genomics research related to fisheries and wildlife conservation. The position is fully funded for 1 year, with potential for additional years, through NOAA's Cooperative Research program, including travel, laboratory supplies, and commercial sequencing.

The Genetics and Evolution Program within the Conservation Biology Division at NWFSC is dedicated to supporting the conservation and management of marine and anadromous species, from deep-sea corals, to salmon, to whales. State-of-the-art, genetics and genomics tools provide essential information for managing sustainable marine resources.

Qualifications - Expert in bioinformatics, statistical genomics, population genetics, and evolutionary biology. - Capable of analyzing a large, existing multi-tiered, DNA sequence data sets, including RAD sequence and WGS

across lineages, populations, and families. - Generate and analyze new sequence data for additional populations. - Demonstrated creativity in applying advanced mathematical and computational methods to distinguish among evolutionary models, especially in the presence of potentially confounding forces of migration, mutation, and demography. - PhD confirmed by start date.

Application Application via the Interfolio system only: <https://apply.interfolio.com/123966> See Interfolio for EEO statement, benefits, commitment to diversity, privacy and disability services. The salary for this position will be \$69,264 per year. Priority consideration begins December 20, 2023. Anticipated start date is May 1, 2024, but no later than June 30, 2024.

Address other questions to the PIs: Paul Moran <[paul.moran@NOAA.gov](mailto:paul.moran@NOAA.gov)> Kerry Naish <[knaish@UW.edu](mailto:knaish@UW.edu)>

Paul Moran - NOAA Federal <[paul.moran@noaa.gov](mailto:paul.moran@noaa.gov)>

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## YaleU Two EcologicalDiversity

Postdoc Position - Deep learning-informed spatial biodiversity science

A 2-3 year postdoc position is available in association with the Yale Center for Biodiversity and Global Change < <http://bgc.yale.edu/> > (BGC Center). We are seeking a highly quantitative scientist with a strong background in machine and deep learning and an interest in the modeling of spatial biodiversity patterns and trends. The successful applicant will conduct research using cutting-edge deep learning (self-supervised learning, large language models, image recognition) towards predicting, monitoring, and understanding of spatial ecological processes, and specifically species distribution dynamics, at scale. Planned research projects will target the integration of remote sensing and human or sensor-supported species observations.

Depending on thematic focus, the successful candidate will have the opportunity to collaborate closely with project partners at the University of Zurich (Jan Wegner group), the University College London (Benjamin Kellenberger Lab, BGC Center alumnus, start 2024), and/or WSL ETH Zurich (Nick Zimmermann Group), and spend part of the postdoc at a partner institution. Support for project-related travel and workshops is avail-



able. We support formal co-mentorship arrangements developed jointly with the successful applicant and long-term visits to partner institutions. Financial support for project-related travel and workshops is available. Target start date for the position is spring/summer 2024, but there is flexibility.

How to apply: Please send the following documents to [ybgc@yale.edu](mailto:ybgc@yale.edu) by Dec 8, 2023: Cover letter, CV, names and contact information for two referees.

The Yale BGC Center supports research and training around the use of new technologies and data flows for model-based inference and prediction of biodiversity change. One flagship BGC Center project is Map of Life < <https://mol.org/> > and its associated activities supporting the GEO BON Species Population Essential Biodiversity Variables < <https://geobon.org/ebvs/working-groups/species-populations/> >, biodiversity change indicators < <https://mol.org/indicators> >, and the Half-Earth Map < <https://www.half-earthproject.org/maps/> >. Other initiatives associated with the Center include the integration of spatial, phylogenetic, and functional dimensions of biodiversity (e.g., VertLife < <http://vertlife.org/> >), NASA-supported remote sensing-informed layers and tools for biodiversity modeling (e.g. EarthEnv < <http://earthenv.org/> >), animal movement analysis (e.g., through our partnerships with Max Planck and the International Biologging Initiative), and novel biodiversity sensors, (e.g. with the Wildlife Insights < <https://wildlifeinsights.org/> > initiative for camera trapping data). Finally, the Center supports the development of new field-based technologies for biodiversity assessment through the Map of Life

Rapid Assessments < <https://mol.org/rapidassessments> > Project, an X-Prize Rainforest Finalist.

We strongly encourage members of underrepresented groups in the sciences to apply. Historical and ongoing social inequities rooted in racism, sexism, ableism, and other forms of discrimination result in the continued and widespread exclusion of marginalized groups from academic spaces. At our Center, we strive to support individuals from diverse backgrounds and to create a safe and inclusive community to counter these legacies of discrimination within the ecological and environmental sciences. We are actively committed to building a team and community where individuals representing a variety of paths to the sciences are brought together to foster a community of learning and collaboration. We hope that our commitments and actions create a more supportive and inspiring environment for individuals and contribute to a more inclusive and equitable future for our field.

Yale University < <https://www.yale.edu/about-yale> > offers a thriving and growing international community of scholars in ecology, evolution and global change science in the Department of Ecology and Evolutionary Biology < <http://www.eeb.yale.edu/> >, the Yale Institute for Biospheric Studies < <http://www.yale.edu/yibs> >, the Peabody Museum < <http://peabody.yale.edu/researchers> >, and the School of the

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## Berlin FlowerMorphologySystematics

Berlin Course in Flower Morphology and Systematics  
3-14 June 2024

This is the second version of a highly successful two-week workshop held in 2023. The course is based at the Biological Institute of the Freie Universität Berlin and the Berlin Botanical Garden, which offer extensive facilities, including functional microscopy laboratories and a huge plant collection of more than 20,000 species. The course is set up as lecture-based, laboratory taught, and interactive visits of the living collections.

**FORMAT:** 2-week workshop, lectures and hands-on practical sessions.

**INTENDED AUDIENCE:** Final year undergraduate students, PhD students, post-doctoral and advanced researchers, professionals (but no formal restriction). A basic knowledge of botany is preferred but not essential. The course will run with a minimum of 8 and a maximum of 20 participants.

**REGISTRATION FEE:** euro 800 ( euro 600 for Undergraduate and Master students) (Registration includes coffee breaks, daily lunches with snacks, and visits, but does not include travel and accommodation).

**HOW TO APPLY AND SECURE A PLACE:** Please contact Dr. Louis Ronse De Craene (l.ronsedecraene@gmail.com) to request an application form.

To secure a place on the course you will be asked to pay a deposit of euro 100 - the rest to be paid by May 1st 2024

**COURSE INSTRUCTORS AND CONTACT:** Dr. Louis Ronse De Craene, Research Associate Royal Botanic Garden Edinburgh (l.ronsedecraene@gmail.com) Prof. Julien Bachelier, Freie Universität Berlin (julien.bachelier@fu-berlin.de)

### PROGRAMME:

**Course Description and outline:** This short course will introduce students to the structure and development of flowers, with a focus on floral diversity and evolution and the significance of flowers for systematics. Major plant families will be identified within the framework of the main lineages of seed plants to understand their evolution and diversification. Additionally, students will learn to analyse, describe, and study the structure of

inflorescences, flowers, and fruits, and based on their observations, to identify the main evolutionary patterns underlying their tremendous morphological diversity, as well as their potential pollination and dispersal mechanisms.

**Course objectives and learning outcomes:** Through this course students will acquire the following skills: - a guide to identifying plants using morphological characters in the context of the molecular classification system. - a better understanding of the origin and evolution of floral structures, including their importance for classification, and of the main developmental patterns and evolutionary trends which underlie the tremendous diversity of reproductive structures. - an ability to observe and recognise key characters through the study of live floral material and the building up of floral diagrams.

**Course outline:** Daily activities will be in the following format: 9-12 Lecture, seminar and discussion of paper. 12-13 Lunch break 13-18 Plant collecting and observation.

Monday 3 June: Student presentations - introduction to morphology of vegetative structures and flowers, inflorescence and flower structure (floral diagrams and formulas). Tuesday 4 June: Overview of major groups of flowering plants; major characteristics of Flowers and special attributes (phyllotaxis, aestivation, merism, symmetry, floral tubes and hypanthia). Wednesday 5 June: Floral evolution from the ANITA grade to Mesangiosperms I Thursday 6 June: Floral evolution from the ANITA grade to Mesangiosperms II Friday 7 June: Monocot evolution: variations on a theme Saturday 8 June: Basal eudicots and rise of the core eudicots Sunday 9 June: Visit of the paleontological collections of the Museum of Natural Sciences

Monday 10 June: Rosid diversification I Tuesday 11 June: Rosid diversification II Wednesday 12 June Rosid-Asterid transition Thursday 13 June: Asterid diversification I Friday 14 June: Asterid diversification II - Conclusions and wrap-up

**Recommended Textbooks and Reading:** Please note that this list is not exhaustive, and that these books will be available in class:

Endress, P.K. 1996. Diversity and evolutionary biology of tropical flowers. Cambridge University Press, Cambridge. Leins, P. & Erbar, C. 2010. Flower and fruit: morphology, ontogeny, phylogeny, function and ecology. Schweizerbart Science Publishers, Stuttgart. Ronse De Craene LP. 2022. Floral Diagrams: An Aid to Understanding Flower Morphology and Evolution. 2nd Edition. Cambridge University Press. Simpson MG. 2019. Plant systematics. 3th Edition. Elsevier. Soltis DE, PS

Soltis, PK Endress, MW Chase, S Manchester, W Judd, L Majure, E Mavrodiev. 2018. Phylogeny and evolution of angiosperms. Revised and updated edition. Chicago: The University of Chicago Press.

Disability Accommodation and dietary restrictions If you have any special request due to any condition that may interfere with your access to the course, please let us know. Let us also know if

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## Online AnimalMovement Jan22-25

Dear all,

there are still a few seats available for our upcoming course on “Analysis of Animal Movement Data in R” scheduled for January 22-25, 2024. To accommodate international participants, the course will be conducted online.

Course website: ( <https://www.physalia-courses.org/courses-workshops/mve-r/> )

Course Overview: Explore telemetry data analysis, from initial data exploration to simulating space use using integrated step selection functions.

Course Format: Evolution and the Machinery of Chance Philosophy, Probability, and Scientific Practice in Biology Marshall Abrams 2023 Chicago University Press <https://press.uchicago.edu/ucp/books/book/chicago/E/bo195920308.html> Engage in live lectures, R walkthroughs, and practical sessions.

Work with your own data during guided coding sessions.

Undertake independent exercises with instructor support.

Prerequisites: Basic understanding of statistical analysis (e.g., linear modeling) and some experience with R for data analysis.

Program Highlights: Daily live sessions from 2-6 PM (Berlin time). Additional 4 hours for self-guided practicals with live remote support via Slack (9 AM to 10 PM Berlin time).

Course Schedule: Monday to Friday: Exploratory data analysis Telemetry data cleaning Quantifying space

use with home ranges Working with multiple animals/instances Habitat selection (RSF) and integrated step selection functions (iSSF) Simulations from fitted iSSF Strategies to model multiple animals Model validation for habitat selection For the full list of our courses and workshops, please have a look at: ( <https://www.physalia-courses.org/courses-workshops/mve-r/> )

Best regards, Carlo

Carlo Pecoraro, Ph.D

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## Online FlowCytometryWithR Jan15-18

Dear all,

there are still a few seats available for our upcoming online course, “FLOW CYTOMETRY ANALYSIS WITH R/BIOCONDUCTOR” (2nd edition) taking place from January 15th to January 18th, 2024.

In this course, you will learn the fundamentals of flow cytometry and why it is indispensable for understanding cell population composition. We will delve into the best practices for flow cytometry data analysis using R/Bioconductor, covering data preprocessing (compensation, transformation, and quality control), multi-dimensional cell population identification through clustering, and visualizing results in 2D. These skills are applicable to various cytometry techniques, including flow, mass, and spectral.

This course is tailored for anyone interested in analyzing biological samples with single-cell flow cytometry. No prior background in flow cytometry or R/Bioconductor is required, as we will provide a brief introduction.

By the end of this course, you will:

- Gain a deep understanding of flow cytometry and its analytical purpose.
- Be able to set up the infrastructure for R and write basic data analytic scripts.
- Describe and execute each step in the flow cytometry

data analytics pipeline using R/Bioconductor. - Be comfortable interpreting and drawing conclusions from flow cytometry data analytics results.

For more information about the course, please check it out: ( <https://www.physalia-courses.org/courses-workshops/flow-cytometry> )

For the full list of our courses and workshops, please check it out: ( <https://www.physalia-courses.org/courses-workshops> )

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR  
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## Online GeneSetEnrichmentAnalysisInR Jan22-25

Dear all,

there are only 5 seats left for upcoming online course on Gene Set Enrichment Analysis (GSEA) in R/Bioconductor!

Dates: 22-25 January 2024

Course Overview: - Dive into GSEA basics and tools - Explore overrepresentation analysis and gene set analysis - Learn various GSEA methods, including multivariate and network-based approaches - Understand downstream processing for efficient result interpretation Target Audience: Perfect for students and researchers with basic R programming skills (data structures: vectors, data frames, lists) and limited statistical knowledge.

Learning Outcomes: - Perform GSEA analysis using popular R/Bioconductor packages - Grasp various GSEA methods - Efficiently visualize and interpret GSEA results

Program: Sessions: 14:00 to 20:00 (Berlin time) from Monday to Thursday Learn-by-practice mode with breaks and Q&A after each topic Bring your data for hands-on practice! Monday: Get hands-on with GSEA basics and online tools.

Tuesday: Dive deep into GSEA theories, frameworks,

and implementing new methods.

Wednesday: Explore GSEA extensions: network-based GSEA, genomic region-based GSEA, GSeq, and single-sample GSEA.

Thursday: Master downstream processing: visualize results, cluster data, and simplify GSEA interpretations.

Limited Slots Available! Secure your spot now: ( <https://www.physalia-courses.org/courses-workshops/gse-in-r/> )

For the full list of our courses and workshops, have a look at: ( <https://www.physalia-courses.org/courses-workshops> )

Best regards, Carlo

Carlo Pecoraro, Ph.D

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## Online GenomeAssemblyAnnotation Mar18-22

Dear all,

We are excited to announce our upcoming online course on “Assembly and Annotation of Genomes,” scheduled for 18-22 March 2024.

Course website: ( <https://www.physalia-courses.org/courses-workshops/course20/> )

This comprehensive course is designed to introduce biologists and bioinformaticians to the principles of de novo genome assembly and annotation. Participants will explore theoretical frameworks and practical examples, covering various sequencing technologies, such as Illumina short reads, PacBio HiFi and CLR reads, Oxford Nanopore long and ultralong reads, and scaffolding technologies like optical mapping and Hi-C. Quality control, consensus, structural error mitigation, manual curation, and the concept of Telomere-to-telomere (T2T) genome assembly will be emphasized.

At the end of this course, attendees will be able to:

Understand de novo genome assembly and annotation

concepts for genomes of all sizes. Evaluate the strengths and weaknesses of various sequencing technologies and scaffolding methods. Gain hands-on experience with tools for assembly, quality evaluation, visualization, and manual curation. Acquire practical skills in feature annotation, including genes and repeats. For the full list of our courses: ( <https://www.physalia-courses.org/-courses-workshops/> )

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR  
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## Online GeometricMorphometrics Apr8-12

Dear all,

registrations are now open for the next edition of the Geometric Morphometrics course on April 8-12, 2024, designed for international participants and held online for your convenience.

In this course, we will explore the standard practices in modern geometric morphometrics, covering data acquisition, analysis, visualization, and interpretation of results. It is a five-day program featuring lectures and hands-on sessions, focusing on 2D data and user-friendly software. Participants will also gain insights into 3D data and R implementations. Ideal for beginners and intermediate users seeking a structured background in geometric morphometrics.

Course website: ( <https://www.physalia-courses.org/-courses-workshops/course22/> )

For the full list of our courses and workshops, please have a look at: ( <https://www.physalia-courses.org/-courses-workshops/> )

Best regards, Carlo

Carlo Pecoraro, Ph.D

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## Online IntroMacroevolutionaryAnalyses Jan16-26

Dear colleagues,

There are a few slots available for the course “Introduction to Macroevolutionary Analyses Using Phylogenies”.

Format: Live Online (synchronous). Places are limited to 15 participants.

Dates and schedule: 16, 17, 19, 25, and 26 January, from 15:00 to 19:00 (Madrid time zone). 20 hours of online live lessons, plus 20 hours of pre-recorded classes and assignments.

More information and registration: <https://www.transmittingscience.com/courses/evolution/-introduction-macroevolutionary-analyses-using-phylogenies/> Check the Ambassadors Institutions to see if you can apply for a 20 % discount (<https://www.transmittingscience.com/funding/ambassador-institutions/>)

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 modeling and the assessment of phylogenetic signals. Finally, we will learn about the shape of phylogenetic trees, their 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 regards

Sole

Soledad De Esteban-Trivigno, PhD Director Transmitting Science [www.transmittingscience.com](http://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](mailto: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](http://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.

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## Online Metabarcoding Eukaryotes Jun17-21

Metabarcoding Pipelines for Eukariotic Communities: Understanding the Theoretical Framework of Metabarcoding Pipelines with MJOLNIR3 (MPEC01)

<https://www.prstats.org/course/metabarcoding-pipelines-for-eukariotic-communities-understanding-the-theoretical-framework-of-metabarcoding-pipelines-with-mjolnir3-mpec01/> Instructor-Dr. Adrià Antich

17th - 21st June 2024

Please feel free to share!

COURSE OVERVIEW - Metabarcoding has emerged as a pivotal technique, rapidly expanding and revolutionizing the way we study biodiversity. >From soil samples to aquatic environments, metabarcoding provides insights into the diverse array of organisms present, offering crucial information for conservation efforts and ecological research. However, metabarcoding encounters intrinsic biases inherent in its methodology. Metabarcoding pipelines are designed to mitigate these biases, and this course will offer insights into optimizing these pipelines for accurate and reliable results. With new techniques continuously evolving, we'll explore methodologies geared towards unraveling both inter and intra-species diversity while addressing the common challenges encountered in a methodology. Additionally, we'll navigate the landscape of methods enabling comprehensive biodiversity assessments, alongside showcasing new machine learning approaches for inferring ecological quality status. This course will focus on the MJOLNIR3 pipeline and its theoretical framework. This R package is based on eight simple functions divided into four different blocks. For each function, a comprehensive description of the process will be provided, including alternatives from other pipelines and their basic command line usage.

By the end of the course, participants will:

Gain a comprehensive understanding of the theoretical foundations underpinning metabarcoding pipelines. Develop the ability to identify potential biases and effectively apply specialized software to mitigate them. Acquire proficiency in working across three distinct levels of coding requirements, encompassing command-line op-

erations and graphical user interface packages. Demonstrate a thorough comprehension of basic biodiversity analysis techniques, spanning inter and intra-species levels. Please email [oliverhooker@prstatistics.com](mailto:oliverhooker@prstatistics.com) with any questions.

Oliver Hooker PhD. PR statistics

Oliver Hooker <[oliverhooker@prstatistics.com](mailto:oliverhooker@prstatistics.com)>

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## Online Morphometrics Jan22-26

Dear colleagues,

Registration is open for the course Geometric Morphometrics for Beginners. This course will be held live online (synchronous). Max 18 participants.

Dates: January 22nd-26th, 2024, from 15:00 to 17:00 and 17:30 to 20:00 (Madrid time zone).

Instructor: Dr. Jesu Marugá-Lobón [1] (Universidad Autónoma de Madrid, España), evolutionary biologist.

### COURSE OVERVIEW

The world around us is a space-time mosaic where forms evolve, constantly change, and interact with each other. Geometric morphometry is a digital morphological analysis tool that allows addressing biological key questions, such as shape transformation (variation) and the result of its interaction (covariation) with the physical environment, with an unprecedented analytical resolution.

In this course, these concepts will be explained in a simple and practical way. To do this, basic aspects such as the biological and geometric concept of landmark and semi-landmark configurations will be reviewed, the available comparative methodologies will be compared, and basic multivariate statistical methods will be put into practice that allow addressing biological problems at any scale of complexity, making special emphasis on visualization and interpretation of form variation.

The examples will focus on how to use Geometric Morphometrics to address evolutionary questions.

This course is introductory.

You can find more information at [https://www.transmittingscience.com/courses/geometric-morphometrics/geometric-morphometrics-for-](https://www.transmittingscience.com/courses/geometric-morphometrics/geometric-morphometrics-for-beginners/)

[beginners/](https://www.transmittingscience.com/courses/geometric-morphometrics/geometric-morphometrics-for-beginners/) or writing [courses@transmittingscience.com](mailto:courses@transmittingscience.com)

Best regards

Sole

Soledad De Esteban-Trivigno, PhD Director Transmitting Science [www.transmittingscience.com](http://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](mailto: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](http://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/courses/geometric-morphometrics/geometric-morphometrics-for-beginners/> Soledad De Esteban-Trivigno <[soledad.esteban@transmittingscience.com](mailto:soledad.esteban@transmittingscience.com)>

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## Online Pangenomics Apr15-17

Dear all,

Registrations are now open for the 2nd edition of the course “Analysis of Prokaryotic Pangenomes” happening from April 15-17, 2024.

Dive into the evolving field of pangenomics and discover the implications of genetic variation in closely related prokaryotes. Through theory and hands-on practice, you’ll explore bacterial genomes, construct pangenomes, analyze gene relationships, and more.

Course website: ( <https://www.physalia-courses.org/-courses-workshops/prokaritotic-pangenomes/> )

Program Highlights: Day 1 (Wednesday, 10 am - 6.30 pm Berlin time)

Introduction to pangenomics

Bacterial genomics fundamentals

Genome annotation using Prokka

Pangenome construction using tools like Roary and Panaroo

Day 2 (Thursday, 10 am - 6.30 pm Berlin time)

Relationships between genes in a pangenome

Networks and visualization with Gephi

Running Coinfinder and using Random Forests to predict gene presence/absence

Day 3 (Friday, 10 am - 5.30 pm Berlin time)

Final practical: Design your own experiment with provided or personal data

Group discussion on problems and analysis strategies

For the full list of our courses and workshops, please have a look at: ( <https://www.physalia-courses.org/-courses-workshops> )

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 ReproducibilityInBioinformatics Apr15-17

Dear all,

We are excited to announce that the registrations are open for the 3rd edition of the online course on “Reproducibility in Bioinformatics,” scheduled from April 15-17, 2024.

Course website: ( <https://www.physalia-courses.org/-courses-workshops/bioinformatics-reproducibility/> )

This course is designed to raise awareness and introduce effective strategies for improving reproducibility in bioinformatic analyses. Through a blend of theoretical sessions and hands-on exercises, our experienced instructors will guide participants in developing skills to enhance the reproducibility of bioinformatic analyses and workflows using containers, versioning, and virtual environments.

Program: Monday: Introduction and basic concepts, Linux command line exercises, Version Control tools, Data organization, and documentation exercises.

Tuesday: Software encapsulation theories, Docker/Singularity basics and advanced exercises, creating your own containers.

Wednesday: Reproducible workflows, workflow management systems (Snakemake, Nextflow, GNU Make), and hands-on exercises combining all concepts.

For the full list of our courses and workshops, please have a look at: ( <https://www.physalia-courses.org/-courses-workshops/bioinformatics-reproducibility/> )

Best regards, Carlo

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## Online RNASeqDataAnalysis Feb29-May2

Dear all,

I am very happy to announce that registration is open for the fourth edition of the Mondego Science online RNA-seq data analysis course, running from the 29th of February till the 2nd of May 2024. The course will run as weekly 2.5-hour Zoom sessions. As usual, we will put lots of emphasis on hands-on work on real data, and on a good intuitive understanding of the concepts that underlie the analyses. There will also be weekly homework assignments, with individual written feedback each time. Participants with no previous bioinformatics experience are welcome!

For registration and for more details on the course, see here:

<https://www.mondegoscience.com/courses/analysis-of-rna-seq-data-online-29feb-2may> Feel free to get in touch on [rosina@mondegoscience.com](mailto:rosina@mondegoscience.com) if you have any further questions!

Hope to see you on the course,

Kind regards,

Rosina.

[rosina@mondegoscience.com](mailto:rosina@mondegoscience.com)

(to subscribe/unsubscribe the EvolDir send mail to [goldring@mcmaster.ca](mailto:goldring@mcmaster.ca))

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## Online SpatialEcoPhylogenetics Mar19-22

ONLINE COURSE - An Introduction to Spatial Eco-Phylogenetics and Comparative Methods (SECM01)

<https://www.prstats.org/course/an-introduction-to-spatial-eco-phylogenetics-and-comparative-methods-secm01/> 19th - 22nd March 2024

Please feel free to share!

COURSE OVERVIEW - In this course we introduce phylogenetic analyses in a spatial context. Phyloge-

netic analyses often imply a high number of species for which phylogenetic information is unavailable, hence we begin by providing an overview on modern techniques to incorporate phylogenetic uncertainty in the analyses (day 1). We then cover the most popular analyses in the spatial phylogenetics discipline (day 2), with particular focus on the canonical analysis of neo- and paleo-endemism (CANAPE). The second part of the course will be devoted to integrating phylogenetic information into models of geographic distribution of species (day 3), followed by an overview of recent advances to improve ecological forecasts using phylogenetic mixed models in a Bayesian framework (day 4).

By the end of the course, participants should:

Know how to expand incomplete phylogenies based on taxonomic information and customizing simulation parameters for optimal expansion. Understand the metrics and concepts used in spatial phylogenetics (i.e. phylogenetic alpha and beta diversity, phylogenetic endemism), interpret them critically, and assess pros and cons of analytical techniques. Calculate phylogenetic predictors that can be included as covariates in Species Distribution or Niche Models. Understand and implement the phylogenetic mixed model (PMM) and translate its predictions into a spatial context.

Day 1 - Expansion of molecular trees using taxonomic information and fundamental metrics of phylogenetic structure

Software for tree expansion exercises; randtip, Phylo-Maker

An overview of the fundamental metrics of phylogenetic structure. Null models.

Day 2 - Spatial Phylogenetics

Canonical analysis of neo- and paleo- endemism. Metrics, rationale, workflow, and implementation.

Day 3 - Phylogenetic Species Distribution Models

Putting phylogenies in the geography: the imprints of evolutionary relationships in distribution models.

Combining phylogenies with co-occurrence to infer spatial phylogenetic predictors.

Fitting, evaluating and interpreting Phylogenetic-SDMs.

Day 4 - Beyond PGLS - Bayes and more

Most common phylogenetic modelling approaches: PGLS

PGLMM

The phylogenetic mixed model (PMM) in a Bayesian framework

Please email [oliverhooker@prstatistics.com](mailto:oliverhooker@prstatistics.com) with any questions.

Oliver Hooker PhD. PR statistics

Oliver Hooker <[oliverhooker@prstatistics.com](mailto:oliverhooker@prstatistics.com)>

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**Online  
Species Distribution Models In R  
Feb 19-23**

Dear all,

We are excited to announce our upcoming online course on “Species Distribution and Ecological Niche Modelling in R,” scheduled for February 19-23, 2024.

This comprehensive course covers the theory and practice of species distribution models (SDM) and ecological niche models (ENM). Participants will delve into underlying concepts, methods, and applications, addressing model caveats and challenges. The course emphasizes hands-on experience, allowing participants to build, validate, and apply models based on species occurrence data of their choice.

Ideal for students, researchers, and practitioners at any career stage, this course is designed for those interested in building and applying reproducible and automated SDM and ENM. Prior experience with R is recommended, but all necessary scripts will be provided and explained in detail.

By the end of the course, participants will:

- Grasp the basic theory and concepts behind SDM and ENM
- Design, build, and evaluate SDM and ENM using automated R scripts
- Understand the strengths and limitations of SDM and ENM for different purposes
- Master SDM and ENM to describe, predict, and project species distributions in space and time

Daily Schedule: 15:00 - 18:00 (Berlin time): Live lectures and introduction to/review of practicals  
4 additional hours: Self-guided practicals using annotated R scripts, with live e-mail support from 09:00 to 23:00 (Berlin time)

For detailed information and registration, please visit

( <https://www.physalia-courses.org/courses-workshops/course45b/> )

For the full list of our courses, please visit: ( <https://www.physalia-courses.org/courses-workshops/> )

Happy holidays everyone, Carlo

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**Switzerland Evolutionary Biology  
Jun 22-29**

Course: Guarda summer school in evolutionary biology, Switzerland, June 2024

Dear Friends, Colleagues, former Guarda participants

It is my pleasure to announce the 2024 Guarda summer school in Evolutionary Biology for master and PhD students. The main aim of the course is to develop the skills to produce an independent research project in evolutionary biology.

The summer school will take place 22. - 29. June 2024 (Saturday to Saturday) in the Swiss mountain village Guarda. Faculty includes Nancy Moran (University of Texas at Austin), Howard Ochman (University of Texas at Austin), Scott Edwards (Harvard University), Sebastian Bonhoeffer (ETH-Zurich, Switzerland) and Dieter Ebert (Basel University, Switzerland; organizer).

The course is intended for master students and early PhD students with a keen interest in evolutionary biology.

Web page with all details: <http://www.evolution.unibas.ch/teaching/guarda/index.htm>  
Application is open now. Deadline is 28. January 2024.

Please communicate this information to interested students.

If you receive this email multiple times, please excuse me.

With best wishes,

dieter

Dieter Ebert University of Basel, Department of En-

Environmental Sciences, Zoology Vesalgasse 1, CH-4051 Basel, Switzerland <http://evolution.unibas.ch/> Email: dieter.ebert@unibas.ch Tel. +41-(0)61-207 03 60

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## UGroningen Netherlands LifeHistoryTheory Jan14-19

PhD course on Life History Theory, at Field station the Herdershut, Schiermonnikoog, January 14-19 2024.

Life History Theory deals with species-specific adaptive schemes of the distribution of the reproductive effort over the life of an organism. The general theoretical problem is to predict which combination of traits will evolve under specific conditions. The concepts used are also relevant to study within species variation in life history traits. The one week course aims at giving an overview of the field and will discuss methodology and recent developments.

### Contents & Structure

The subject will be worked out on the basis of lectures, case histories, discussion and practicals. Attention will be paid to various groups of organisms such as birds, fishes, plants and humans. The contact with current research projects is guaranteed as concrete examples will be treated by scientists working in the field. In poster sessions work and/or plans of the participating students will be discussed with the whole group and we will use computers to illustrate some of the concepts.

Topics and Teachers will include but are not limited to:

Cost of reproduction, Optimality in evolutionary ecology, Aging in a life history context (Simon Verhulst, GELIFES)

Evolutionary genomics, Animal personalities (Kees van Oers, NIOO)

The evolution of senescence in super-organisms, calculating fitness (Ido Pen, GELIFES)

Life-history evolution in plants & Plant epigenetics (Koen Verhoeven, NIOO)

Age and size at maturity (Tom van Dooren, CNRS, France)

We are happy to announce that as before we will have

two special guest lecturers. Prof Gert Stulp (Sociology & Evolutionary Biology, UG) and Dr. Sandra Bouwhuis (Life history biology, Institute of Avian Research, Wilhelmshaven, Germany).

Furthermore, the course will contain an overview of research done on Schiermonnikoog as well as a field excursion led by Prof. Christiaan Both (GELIFES).

For more information on the preliminary programme and to register, please visit the course website : <https://www.rug.nl/research/ecology-and-evolution/-phdcourses/lifehistorytheory> The course will be held on the Dutch isle of Schiermonnikoog and starts Sunday night the 14th of January and ends Friday the 19th of January. The registration fee is euro 350,- for all participants belonging to the RSEE and affiliated research schools (PE&RC, WIMEK). All other participants pay euro 600,-. This includes lodging, meals, and the course material at the course venue.

There are a few slots available, first come, first serve.

For more information, visit the website or please contact the Course Organizers:

Prof. Simon Verhulst <s.verhulst@rug.nl> (Behavioural & Physiological Ecology, Groningen Institute for Evolutionary Life Sciences, University of Groningen)

Dr. Corine Eising <c.m.eising@rug.nl> (Research School Ecology & Evolution)

c.m.eising@rug.nl

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## UNAM-LIIGH QueretaroMexico SLiMEvolModeling Feb5-9

Hi folks!

I'm excited to announce a new SLiM workshop in Querétaro, Mexico, February 5-9, 2024 - less than two months from now!— Apologies for the short notice, this plan came together quite recently.— It will be at UNAM Juriquilla, the Juriquilla campus of the National Autonomous University of Mexico in Querétaro.— The host institution is LIIGH, the International Laboratory for Human Genome Research in Querétaro, and the local workshop host is Viridiana Villa, villa.islas.vi@gmail.com.

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/>).

This workshop is open for registration NOW.— 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.— I do expect this workshop to fill, and the timeframe is unusually short, so I would recommend that you register as soon as possible.— (Please DO NOT make travel arrangements until you have been formally accepted to the workshop.)

To apply to this workshop, please send an email to Viri ([villa.islas.vi@gmail.com](mailto:villa.islas.vi@gmail.com)) and myself ([bhaller@mac.com](mailto:bhaller@mac.com)).— Please 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, to the extent possible for you (I realize vaccine availability is lower in Mexico, but I would like to keep everyone healthy if I can).— Note that you will be responsible for your own lodging and your own transportation.— Further information for attendees can be found at [http://benhaller.com/-workshops/workshops\\_attendees.html](http://benhaller.com/-workshops/workshops_attendees.html).— 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.

Note that there are also four workshops scheduled in Europe for early 2024 (<https://groups.google.com/g/slim-announce/c/EIPTKb3xxLw/m/k6quOWIHAAAJ>); they are all full, however, unfortunately.— Demand is high at the moment.

Please spread the word so more folks hear about this, particularly within Mexico; feel free to share this post 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

Ben Haller <[bhaller@mac.com](mailto:bhaller@mac.com)>

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

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## Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to [Golding@McMaster.CA](mailto: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](mailto: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 notification of the availability of a monthly review pdf file.

To be removed from the EvoDir 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 EvoDir direct them to the email `evodir@evol.biology.McMaster.CA`. Do not include encoded attachments and do not send it as Word files, as HTML files, as L<sup>A</sup>T<sub>E</sub>X 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 formatted) 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 preformatting 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 L<sup>A</sup>T<sub>E</sub>X do not try to embed L<sup>A</sup>T<sub>E</sub>X or T<sub>E</sub>X in your message (or other formats) since my program will strip these from the message.