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# E v o l D i r

October 1, 2021

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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### Cleveland ASN Symposium Proposal Call 2022

The American Society of Naturalists

Proposals for a Symposium to be held at the 2022 SSE/ASN/SSB Meeting in Cleveland, OH

Due October 15th, 2021

The American Society of Naturalists invites proposals for a special symposium at the 2022 annual joint meeting of the Society for the Study of Evolution, the American Society of Naturalists, and the Society of Systematic Biologists, to be held June 24-28, 2022, in Cleveland, OH.

Proposed symposium topics should support the Society's goal to advance the conceptual unification of the biological sciences and to further knowledge in evolution, ecology, behavior, and organismal biology. Proposals should be synthetic and interdisciplinary and address important emerging issues in evolution, ecology, or behavior. A budget of \$8,000 for travel, registration, and accommodation is provided to help defray expenses.

Proposals should include (1) a title; (2) a description of the symposium topic (one page); (3) a list of six speakers, including institutional affiliations, who have agreed to participate in the symposium; (4) a justification for the symposium, explaining why the topic and speakers are appropriate for a Society-sponsored symposium (up to one page).

Please submit proposals no later than midnight Eastern Time on October 15, 2021, by email (weberm11@msu.edu) as a single pdf attachment, under subject heading: ASN Symposium Proposal: Evolution 2022. In line with the ASN's commitment to diversity,

we encourage including speakers from groups who have been historically excluded from STEM. Therefore, proposals that include a diverse list of speakers from a range of backgrounds, institutions, career stages, geography, gender, race etc. are especially encouraged.

The Society's selection committee will evaluate proposals based on the likelihood of attracting a substantial audience, the significance and timeliness of the topic, and on the topic's differing substantively from recent symposia hosted by the Society. All applicants will be notified of the decision before the end of November.

Marjorie Weber ASN Symposium Committee Chair  
Department of Plant Biology, Program in Ecology, Evolutionary Biology, & Behavior  
Michigan State University  
Weberm11@msu.edu

Rachel Spigler <rachel.spigler@temple.edu>

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### Online Animal Behaviour Nov18-19

Dear colleagues,

We are thrilled to announce the Animal Behaviour Live: Annual Online Conference 2021 that will take place on the 18th and 19th of November 2021. Like the previous version, this conference will be fully broadcasted online on YouTube and is aimed at inclusively bringing together researchers in animal behaviour from all over the world. Like last year, the event will be completely FREE of charge and open to everyone.

We already have two confirmed plenary speakers: Prof. Marie E Herberstein who studies the behavioural ecology of spiders and insects, and Prof. Rebecca Kilner who studies the relationship between social behaviour and evolution in birds and insects.

Based on our previous edition, we have implemented some changes to make ABL:AOC 2021 even more accessible. The main one is a new presentation session every day for a better coverage of global time zones. Thus, the congress will be divided in 6 sessions (3 sessions per day):

- \* Session 1: 7h-10h UTC+0
- \* Session 2: 14h-17h UTC+0
- \* Session 3: 21h-24h UTC+0

Over these different sessions, you will be able to attend 4 plenaries and 24 short presentations, as well as other little surprises. In parallel, it will also be possible to watch a series of posters during the whole congress.

The short presentations will be for 20 min (15 min talk + 5 min questions). This year, two options will be offered to the speaker: 1) Record the 15 min presentation (and we will stream the video) 2) Present live. In both cases, the 5 minutes of questions will be held live to allow for interactions with the attendees.

The posters will keep the same format as last year, namely a pre-recorded 5 min presentation. You can find a lot of different examples on our YouTube channel: <https://www.youtube.com/channel/UCkAcB-k186yZmalqNJ9JTJw>. For more information, please visit our website: <https://animalbehaviour.live/> Registration is now open: You can register here: <https://docs.google.com/forms/d/e/1FAIpQLSdnAAyMYB4goaQKGm8H8m95occ9NwnA7meB5oYerP1ScR6S-the/viewform>, or visit our website: <https://animalbehaviour.live/aoc.html> Submission is now open (deadline September 15th): Submit your abstract for a short presentation or a poster here: [https://docs.google.com/forms/d/e/1FAIpQLSd3WbewL3vMJ\\_Y4e6anhPjT4xuQx7kqYCKBxcOv232Xez9W1A/viewform](https://docs.google.com/forms/d/e/1FAIpQLSd3WbewL3vMJ_Y4e6anhPjT4xuQx7kqYCKBxcOv232Xez9W1A/viewform), or by visiting our website: <https://animalbehaviour.live/abstract.html> Please keep in mind that we are a small team and that the inclusiveness and success of this event is based on the participation of our community. So please, do not hesitate to spread the word about ABL:AOC 2021 around you by forwarding this email to as many colleagues as possible, and publishing our event on social media

We look forward to seeing you all for this exciting conference.

Best wishes,

The organising committee

Animal Behaviour Live Contact:

Website: <https://animalbehaviour.live/> Email: [contact@animalbehaviour.live](mailto:contact@animalbehaviour.live) Twitter: @AnimalBehavLive Facebook: @AnimalBehaviourLive

Natacha Rossi <n.rossi@qmul.ac.uk>

## Online Biodiversity Mar15-31

The 2nd International Electronic Conference on Diversity (IECD 2022) New Insights into the Biodiversity of Plants, Animals and Microbes Open for Submission

Dear Scientists, Researchers and Authors,

We hope this email finds you well. We would like to re-confirm our invitation for you to participate in the online conference, the 2nd International Electronic Conference on Diversity (IECD 2022) New Insights into the Biodiversity of Plants, Animals and Microbes, chaired by Prof. Dr. Michael Wink. The conference will be held on <https://iecd2022.sciforum.net/> from 15-31 March 2022. If you are interested, please submit your abstract (in English) online by the abstract submission deadline (15 October 2021) at <https://sciforum.net/user/submission>. This conference aims to provide leading scientists working in the field of biodiversity with a robust common platform on which to share and discuss the latest research, and to promote the advancement of this exciting and rapidly changing field. We hope to encourage biodiversity across the discipline, as we cover the following three broad themes in Sessions A-C, as listed below:

Session A: Animal Diversity Session B: Plant Diversity; Session C: Microbe Diversity.

The conference will be completely free of charge both to attend and for scholars to upload and present their latest work on the conference platform. All accepted proceedings papers will be published as one dedicated volume in the MDPI Environmental Sciences Proceedings journal. Publication of proceedings papers is free of charge. There will also be the possibility to submit selected papers to the journal Diversity (ISSN 1424-2818; impact factor: 2.465 (JCR 2020)) with a 20% discount on the APC.

IECD 2022 offers you the opportunity to participate in this international, scholarly conference without having the concern or expenditure of travel all you need is your computer and access to the Internet. Moreover, the conference will offer the opportunity to attend a number of free live-streaming sessions presented by invited speakers. We would like to invite you to “attend” this conference and present your latest work.

Abstracts (in English) should be submitted by 15 October 2021 online at <https://sciforum.net/user/submission>. For accepted abstracts, conference proceedings papers

can be submitted by 8 January 2022. The conference proceedings papers and presentations will be available on Sciforum for discussion during the time of the conference (15-31 March 2022). We hope you will be able to join this exciting event, which is organized and sponsored by MDPI, a scholarly open access publisher (<http://www.mdpi.com/>).

Conference Schedule Abstract Submission Deadline: 15 October 2021

Notification of Acceptance:

26 October 2021 Submission of Full Paper Deadline:

18 January 2022 Conference Open: 15-31 March 2022

We look forward to receiving your research papers and welcoming you to the 2nd International Electronic Conference on Diversity (IECD 2022) New Insights into the Biodiversity of Plants, Animals and Microbes.

Please do not hesitate to contact us if you have any questions.

Kind regards,

Prof. Dr. Michael Wink

Institute of Pharmacy and Molecular Biotechnology,  
Heidelberg University, Heidelberg, Germany

Conference Secretariat Ms. Caitlin Sheng Ms. Jennifer Wang email: [iecd2022@mdpi.com](mailto:iecd2022@mdpi.com)

[caitlin.sheng@mdpi.com](mailto:caitlin.sheng@mdpi.com)

## Online Human Evolution Nov2-4

Wellcome Connecting Science | Human Evolution - From Fossils to Ancient and Modern Genomes

02-04 Nov 2021 Virtual from Wellcome Genome Campus, Hinxton, UK Contact: [Conferences@wellcomeconnectingscience.org](mailto:Conferences@wellcomeconnectingscience.org)

Website link: <https://coursesandconferences.wellcomeconnectingscience.org/event/human-evolution-from-fossils-to-ancient-and-modern-genomes-virtual-conference-20211102/>

Abstract and bursary deadlines: 21 September 2021  
Registration deadline: 26 October 2021  
Summary: Understanding of human evolution and history is being reshaped by the application of genomic analysis and recent archaeological and palaeontological discoveries. This virtual event will highlight emerging archaeological discoveries and advances in genetic tools that are

transforming the field. The focus of this year's conference will be human evolution and disease, genetic admixture and adaptation human demography, as well as population structure, palaeoanthropology, and linguistic ancient DNA methods. Global participation is encouraged with sessions running in afternoons for Europe and Africa | mornings for the Americas. The conference will run from Tuesday, 02 November until Thursday, 04 November 2021. Sessions will start at 13:00 GMT and finish at approximately 18:00 GMT each day.

Topics will include: \* Human Evolution and disease \* Ancient and modern genetic admixture \* Inferring human demography from genomic data \* Population Structure \* Human Adaptation

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

Jane Murphy <[jane.murphy@wellcomeconnectingscience.org](mailto:jane.murphy@wellcomeconnectingscience.org)>

## Online Palaeobiology Dec1-15

Dear colleagues,

we are thrilled to announce the Thematic Session "Conservation Palaeobiology - Bridging Past and Future" at the 3rd Palaeontological Virtual Conference, that will take place from the 1st to the 15th of December! The direct link to the session page is <http://palaeovc.org/index.php/conservation-paleobiology-bridging-past-and-future/> Conservation paleobiology is an emerging field that applies data, concepts, and theories from diverse disciplines, including paleontology, geology, and paleoecology, with the purpose of biodiversity conservation and ecosystem management. Currently, humanity is facing grave consequences from rapid climate change, pollution, biosphere alteration, and species extinctions. However, direct ecological observations of anthropogenic impacts and environmental change rarely span more than the last few decades. To understand more fully how ecosystems have responded to multiple stressors through time we need to seek answers in the past. Geohistorical records can help overcome the temporal limitations of traditional ecological monitoring. They provide insights into ecosystem changes and biotic responses to major environmental perturbations over long timescales, thus

facilitating reconstructions of past ranges of variability and supporting the theoretical foundations of future conservation efforts.

This session is supported by the Conservation Paleobiology Network (<https://conservationpaleorn.org/>) and co-chaired by Paolo Abondio (Dept. Biological, Geological & Environmental Sciences, University of Bologna, Italy), Danijela Dimitrijević (GeoZentrum Nordbayern, FAU Erlangen-Nürnberg, Germany) and Niklas Hohmann (GeoZentrum Nordbayern, FAU Erlangen-Nürnberg, Germany).

We invite contributions from paleontology and related fields including (but not limited to) archaeology, anthropology, and historical ecology. We are particularly open to submissions on the topics of near-time and deep-time perspectives on eco-evolutionary processes during episodes of rapid (natural and anthropogenic) environmental change and potential biases affecting the fossil record. In addition, we encourage submissions on collaborations with practitioners and conservation efforts that use historical data.

We hope to gather exciting and thought-provoking contributions that will stimulate discussions between scientific disciplines and practitioners around urgent questions in conservation paleobiology.

There is a registration fee of 5 euro (social funds are available for participants from low and lower-middle income countries) for the whole virtual conference, and the possibility to submit up to two abstracts (of 250 words each) as first author in any of the thematic sessions of PalaeoVC. Abstract deadline is September 20th; formats for accepted communications will be slide presentations (5 to 30 slides) and videos (12 minutes), while discussions will be carried out on Discord.

You can find all the information you need at <http://palaeovc.org/>. Please, do not hesitate to spread the word around you by forwarding this e-mail to as many colleagues as possible, and publishing the event on social media!

We look forward to seeing you all in December!

Paolo, Danijela and Niklas

Paolo Abondio, PhD Research Fellow Laboratory of Molecular Anthropology & Centre for Genome Biology Dept. of Biological, Geological and Environmental Sciences University of Bologna Via Selmi, 3 - 40126 Bologna (Italy) email: [paolo.abondio2@unibo.it](mailto:paolo.abondio2@unibo.it)

Paolo Abondio <[paolo.abondio2@unibo.it](mailto:paolo.abondio2@unibo.it)>

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## Plön Germany Microbial Populations May

Announcing two in-person meetings on Microbial Population Biology for Summer of 2022. We look forward to bringing the Microbial Population Biology community back together in the Summer of 2022 at the Max Planck Institute for Evolutionary Biology in Plön.

During two independent, 4-day meetings, we will embrace thought-provoking discussions and community engagement on cutting edge topics in microbial evolution. Applicants may apply to either or both meetings. Both meetings will feature invited speakers, and we also welcome applications for short talks and poster presentations. We aim to have all participants present their work.

Applications will be reviewed based on overall quality and fit for the meeting. Abstracts must be unique and specific to the theme of the meeting. As a fully trainee-organized meeting, we especially welcome applications from graduate students and postdocs. But all levels are welcome! Both meetings will be small (~60 people) and will feature meals and social activities at the venue to drive discussion and engagement. Registration and two meals per day will be provided at no cost, but participants need to cover travel and accommodation. We expect to provide need-based financial assistance for travel, and accommodation. Please reach out to us directly for financial assistance. Applications are open now, and close on October 31st 2021. All applications will be reviewed after this deadline.

Meeting I is focused on Microbial Communities and Coevolution (May 16 - 20, 2022).

Meeting II is focused on Microbial Evolutionary Dynamics (May 30 - June 3, 2022).

Visit the following website for details of each workshop and for the abstract submission process.

<https://workshops.evolbio.mpg.de/event/43/> Note: We aim to provide safe conditions for this in-person meeting. Based on future regulations and recommendations, we may require proof of vaccination status and/or proof of testing prior to entry.

Organizers: Alita Burmeister (Yale University), Andrew Farr (MPI for Evolutionary Biology), Fatima Aysha Husain (MIT), Tanush Jagdish (Harvard), Clara Moreno-

Fenoll (ESPCI-PSL), Loukas Theodosiou (MPI for Evolutionary Biology)

Andrew Farr <afarr@evolbio.mpg.de> Andrew Farr <afarr@evolbio.mpg.de>

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## Snowbird Utah ConservationGenomics Oct10-13

The American Genetic Association Council will be holding President Kelly Zamudio's symposium \*Conservation Genomics: Current Applications and Future Directions\*, both virtually and in-person.

The meeting will include sessions on o Climate change, adaptation, and genomics o Genetic monitoring and genomic rescue o Genomics of disease and conservation of wildlife o Conservation genomics in action

Virtual registration will remain open until October 1st.

In-person registration is limited to 110 people to maintain social distancing during presentations. All participants must bring proof of vaccination status.

See <https://www.theaga.org/agatwentytwentyone.htm> for full registration, accommodation, and Covid mitigation information.

Contact Anjanette Baker, AGA Manager, with any questions. <theaga@theaga.org>

Anjanette Baker <theaga@theaga.org>

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## ArizonaStateU EvolutionaryGenomics

### Evolution & physiological genomics

The Dolby and Kusumi labs in the School of Life Sciences at Arizona State University have funding to support a PhD student in the area of evolutionary, physiological, and functional genomics. The main project will focus on modeling the genomic, epigenomic, transcriptomic, and behavioral controls on an adaptive phenotype (drought-tolerance) in snakes using empirical data (NSF #2107975, <https://tinyurl.com/rkwxmrcv>). Prior experience is not required, but enthusiasm to learn modeling (e.g., structural equation modeling) and bioinformatic (CLI, R) tools is essential. Broadly, our group uses interdisciplinary approaches to answer questions about the mechanisms of evolution, such as under what limits geological/climatic processes shape the formation of species, or how are adaptive phenotypes controlled and evolved during the process of speciation. Applicants are welcome from a wide range of disciplines, including mathematics, earth sciences, physics, computer science, and biology.

Our group is a supportive, dynamic, integrative research team with a strong commitment to inclusive practices. For more information visit our lab websites: [www.greerdolby.org](http://www.greerdolby.org) and <https://kusumi.lab.asu.edu>. If you are interested in this research and applying to graduate school at Arizona State University, please email [gadolby@asu.edu](mailto:gadolby@asu.edu) or [Kenro.Kusumi@asu.edu](mailto:Kenro.Kusumi@asu.edu).

Greer Dolby <[gadolby@asu.edu](mailto:gadolby@asu.edu)>

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## AuburnU EvolutionMollusks

Graduate Research Assistant(s) - MSc and PhD Southeast Conservation Genetics Lab Auburn University Dr. Nathan Whelan, [nathan\\_whelan@fws.gov](mailto:nathan_whelan@fws.gov), [nwhelan@auburn.edu](mailto:nwhelan@auburn.edu) [www.nathanwhelan.com](http://www.nathanwhelan.com) [www.fws.gov/southeast/warm-springs-fish-technology-center/conservation-genetics-lab/](http://www.fws.gov/southeast/warm-springs-fish-technology-center/conservation-genetics-lab/) The Whelan Lab at Auburn University and the U.S. Fish and Wildlife Service Southeast Conservation Genetics Lab (SECGL) are seeking graduate student applications for the MSc or PhD degree to study freshwater invertebrate

evolution and conservation. At least one MsC and one PhD position will be available to start in January or August 2022. Potential masters and PhD projects include conservation genetics and molecular ecology of freshwater mollusks, phylogenetics and systematics of freshwater gastropods, and phylogenomics of Myxobolidae fish parasites. Students will work in museum, lab, and field environments.

SECGL is a joint U.S. Fish and Wildlife Service and Auburn University research lab. We are located in Swingle Hall on Auburn University's main campus. Our research includes both basic and applied science, and students work in an academic research environment while collaborating with government researchers and on-the-ground conservation scientists. Students will have the opportunity to work directly with conservation practitioners and perform cutting-edge research. Current research projects in the lab include (1) phylogenomics of freshwater gastropods, with an emphasis on Pleuroceridae, (2) conservation genomics and molecular ecology of freshwater mollusks, including threatened and endangered mussels and snails, (3) taxonomy of terrestrial snails, freshwater mussels, and freshwater snails, (4) freshwater gastropod life history evolution, and (5) taxonomy of metazoan fish and mollusk parasites. We also work with the National Fish Hatchery program and use genetic data to evaluate and improve hatchery efforts.

SECGL has outstanding facilities, equipment, and capacity for lab- and field-based research. We have all the equipment needed for next-generation library prep and other molecular data generation, including an Agilent Fragment Analyzer, Blue Pippin, Qubit, and OpenTrons OT-2 liquid handling robot. We also have multiple computers for bioinformatics (e.g., an 80-core, 512GB RAM machine) and access to additional computing resources through Auburn University and the Alabama Supercomputer Authority. The lab has a 4WD SUV and other equipment for fieldwork.

Auburn University is a public land-, sea-, and space-grant institution with internationally recognized research and academics. Auburn and nearby Opelika, Alabama are vibrant towns with excellent quality of life and a relatively low cost of living.

GRA Stipends and Start Dates: Students will receive a stipend of \$1,900/month and a tuition waiver. Available start dates are January 2022 or August 2022.

To apply: Send a letter of interest, current CV, contact information for 2-3 references, and unofficial transcripts to: Dr. Nathan Whelan, [nathan\\_whelan@fws.gov](mailto:nathan_whelan@fws.gov). Members of historically underrepresented groups are particularly encouraged to apply.

Nathan Whelan, Ph.D.

My pronouns are: he/him/his Director, Southeast Conservation Genetics Lab U.S. Fish and Wildlife Service || Auburn University nathan\_whelan@fws.gov

“Whelan, Nathan V” <nathan\_whelan@fws.gov>

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## Clermont-Ferrand France PolyploidEvolution

The PaleoEVO group would like to advertise the following PhD position:

EFFECTS OF POLYPLOIDIZATION ON THE WHEAT METHYLOME TRANSCRIPTOME COMPLEX

SUPERVISORS: Peter Civan (<https://www.researchgate.net/profile/Peter-Civan>), Jerome Salse ([https://www.researchgate.net/profile/Jerome\\_Salse](https://www.researchgate.net/profile/Jerome_Salse))

LABORATORY: INRAE-UCA UMR 1095 GDEC, Génomique, Diversité et Ecophysiologie des Céréales, PaleoEVO team (<http://bit.ly/PaleoEvo>), 5 chemin de Beaulieu, 63000 Clermont-Ferrand

PERIOD: Starting before the end of 2021 until 2024

FUNDING: INRAE (<https://www.inrae.fr/>) & ISITE-CAP2025 Challenge 1 (<https://cap2025.fr/>)

APPLICATION: please send your CV and a motivation letter to peter.civan@inrae.fr and jerome.salse@inrae.fr

DEADLINE: 10. September 2021

PROJECT DESCRIPTION: Wheat is one of the most important crops globally, forming a crucial part of human diet. Bread wheat has a polyploid genome resulting from ancient hybridization between its diploid and tetraploid progenitors some 10K years ago. Understanding the genetic consequences of polyploidization on the wheat genome, transcriptome, and ultimately phenotype, can have crucial implications for utilization of genetic diversity in breeding. The seminal polyploidization of bread wheat evolution can be recreated in experimental settings, producing synthetic/nascent polyploids, which are not simply a sum total of the parental genomes, but are modified by various genetic and epigenetic changes, including sequence elimination, transcriptomic changes and epigenetic modifications. Although some of these changes are reproducible and similar to the ones found in natural polyploid wheats, their systematic,

genome-wide characterisation is lacking. Moreover, the mechanistic basis of these changes remains poorly understood, and it is unclear whether they are necessary for proper functioning and fertility of the nascent polyploids, or mere (potentially deleterious) byproducts of the polyploidization process. The best described consequence of polyploidization in wheat is the re-programming of its transcriptome, also called expression partitioning. Transcriptomic studies have shown that homoeolog silencing is pervasive in bread wheat, with 27.6%-45% of homoeologous groups having one or two gene copies silenced. A portion of these changes is established immediately after polyploidization and can be studied in synthetic allohexaploids. Although there are several possibilities how transcriptional reprogramming can be achieved (e.g., gene loss, TE insertion in gene's vicinity; position effect due to translocation), mounting evidence suggests that DNA methylation (i.e. cytosine methylation) is the primary mechanism of polyploidy-induced reprogramming that ensures its heritability. Despite the obvious importance of gene expression (de)regulation in polyploid crops, virtually no studies have examined on the genome-wide scale the possible links between gene expression changes and DNA methylation patterns in nascent wheat polyploids. This project aims to provide gene-based (but genome-wide) exploration of these processes. Building on existing transcriptomic data collected from families of nascent synthetic allohexaploids where 'binary DEGs' have been identified (differentially expressed genes showing no transcription in the synthetic wheat despite robust transcription in the parents), the PhD candidate will first explore gene losses and aneuploidy as the potential causes of such patterns. Subsequently, the core of the project will focus on links between cytosine methylation and altered expression. These will be explored through methylome sequencing (Illumina) of amplicon libraries (homoeolog-specific) constructed from the binary DEGs. Various gene partitions (UTRs, exons, introns), sequence contexts (CpG, CHG, CHH), crossing schemes, tissues and generation will be examined to provide a detailed assessment of methylation changes in respect to altered transcription in polyploids. These changes will be evaluated in the context of wheat diversity and agronomically important traits, with the aim to inform future breeding efforts.

REQUIRED SKILLS AND QUALIFICATIONS: \* MSc degree in molecular genetics, or similar (required) \* wet-lab experience with DNA extractions, PCR, etc. (required) \* experience with primer design and DNA methylation analysis (beneficial) \* bioinformatics: experience with command-line interface, R, scripting, next-generation sequencing data (beneficial) \* proficient use



of English (required) \* communication in French (beneficial)

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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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## ColoradoStateU 2 PtarmiganGenomics

Two (2) PhD Assistantships in Ecology to Study White-tailed Ptarmigan Population Processes (Demographics and Genomics)

We are recruiting two graduate students to study white-tailed ptarmigan population dynamics in the southern Rocky Mountains of Colorado. This research is part of a continuing long-term study of two ptarmigan populations (Mt. Evans and Trail Ridge [Rocky Mountain NP]) that began in 1966. The first student (Demographic) will investigate habitat relationships by combining newly collected VHF-telemetry data with an existing location database and applying resource selection functions to model quality habitats, and predict likely future changes to habitat under various climate scenarios. This student will also conduct field work to monitor breeding activities during the spring and summer, and construct population models used to estimate various demographic rates and processes. The second student (Genomic) will have access to a full genetic catalog of biological samples collected from every banded white-tailed ptarmigan captured within the past 15 years, with associated repeated measurement data on timing of breeding events (for females) and demographic data. This student will potentially conduct paternity analyses, and relatedness matrices for use in animal models to evaluate the adaptive nature and evolvability of timing of breeding and molt. This student will also participate in the collection of field data. There will be considerable freedom for both students to develop their own research program, so long as they align at least somewhat with these research topics.

Those interested in applying for a PhD assistantship must have a MS degree in wildlife biology, ecology, statistics, or a closely related field. Please make sure to highlight such experience in your cover letter. Ideally, students will be available to begin in January 2022,

taking classes and preparing for field work in late-May 2022. There may be some flexibility in this start date, but coursework must begin in August 2022 at the latest. Please specify which position you are applying for in your cover letter, what skills you have that would make you ideal for this position, and why you could be a good candidate.

Required Qualifications:

§MS wildlife biology, statistics, or related field

§Excellent written and oral communication skills

§Excellent organizational skills

§Ability to work independently in rugged and sometimes isolated wilderness

§Demonstrated coursework in statistics, population genetics, or demographic modeling

§Demonstrated research thesis or publications

Desired Qualifications:

§Strong quantitative skills, including Bayesian hierarchical modeling, mark-recapture analyses, or generalized linear models

§Experience coding in R or Python, including GIS spatial processing

§Knowledge of avian biology or alpine ecosystems

Students would be enrolled in the Graduate Degree Program in Ecology at Colorado State University and directly advised by Dr Cameron Aldridge who is a Research Ecologist at the USGS Fort Collins Science Center and an Affiliate Faculty at CSU; Dr. Sara Oyler-McCance who is a Research Geneticist with USGS and runs the Molecular Ecology lab at FORT; and Dr. Greg Wann, who is also an Ecologist at USGS-FORT. This is a unique team of wildlife ecologists, who are experts in the fields of ecology, population demography, resource selection, grouse and ptarmigan ecology, quantitative modeling, and applied genetics and genomics.

Colorado State University (<http://admissions.colostate.edu/>) has prolific research in natural resources (<http://warnercnr.colostate.edu/>) and a world class Graduate Degree Program in Ecology (<http://ecology.colostate.edu/>). CSU is located in beautiful Fort Collins, on the foothills of the Rocky Mountains, and has been voted as one of the best places in the United States to live.

Compensation includes annual stipend of ~\$28,000, plus tuition and benefits.

Individuals interesting in applying for this position should contact Dr. Cameron Aldridge ([aldridgec@usgs.gov](mailto:aldridgec@usgs.gov)), with the subject Title: "Ptarmi-

gan Positions”. Please send 1) a cover letter explaining your long-term career/research goals and academic interests, 2) a copy of your current CV (resume), 3) GRE scores and unofficial transcripts, 4) names, addresses, and e-mail contacts for three references. Applications will be evaluated upon receipt. Deadline to apply

“Fike, Jennifer” <fikej@usgs.gov>

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### ETH Switzerland Evolutionary Genetics

The Swiss Federal Institute for Forest, Snow and Landscape Research WSL is part of the ETH Domain. Approximately 600 people work on the sustainable use and protection of the environment and on the handling of natural hazards.

The Evolutionary Genetics Group (EGG) is interested in understanding the roles of demography and natural selection in shaping the life-histories and the genetic composition of forest tree populations across the landscape. The group uses field experiments, statistical models, and individual-based computer simulations to answer fundamental evolutionary questions and to aid adaptive forest management decisions.

Group page: <https://sites.google.com/site/katalincsillery/> In the framework of the ERC Consolidator Grant, MyGardenOfTrees, starting approx. in December 2021, we offer a 3-year position for a PhD Student in “Adaptation during range expansion in European beech”

MyGardenOfTrees is aimed at performing a species range-wide transplant experiment to assess the capacity of regeneration of two forest tree species, European beech and silver fir, as well as their Mediterranean and oriental sister species. The experimental part of the project is based on participatory science, involves foresters all across Europe, and is coordinated by a dedicated senior researcher. Two PhD students will be hired on this project working on complementary topics.

The current PhD position will focus on understanding the adaptive and demographic processes that have led to the range expansion of European beech (*Fagus sylvatica* L.) after the last glacial maximum both at the genomic and phenotypic level. *Fagus sylvatica* is best considered as a species complex whose current range extends from the Pyrenees to northern Iran. Despite the large genetic diversity of beech populations in Minor Asia and on the

Balkan peninsula, a single lineage has colonized most of Europe. Had the colonizing lineage have superior performance, and does it outperform other lineages still today? Could current beech die-back across Europe be partly attributed to the reduced genetic diversity due to the expansion load or is it due to ongoing unprecedented climate change? Could the introduction of other beech lineages and hybridization between them be used to mitigate future climate change? The selected PhD student will investigate these questions using a combination of genomics, common garden experiments (performed by foresters) and environmental data.

The ideal candidate holds a Masters degree in evolutionary biology, genetics, plant science or in a related discipline. S/he is expected to have experience and a keen interest in evolutionary biology, forest genetics, bioinformatics, and statistics, is fluent in English, has good written and oral communication skills, and can work independently. The PhD thesis will be supervised by Dr Katalin Csilléry (WSL, leader of the EGG), Prof Yvonne Willi (University of Basel), Dr Christoph Sperisen (WSL), and will be in collaboration with the Genetic Diversity Center of the ETH Zurich. The PhD candidate will be based at WSL in Birmensdorf with short stays at the University of Basel. The PhD degree will be awarded by the University of Basel and the Zurich-Basel Plant Science Center’s PhD program in Plant science.

Applications, including a motivation letter, a summary of past relevant accomplishments, a CV, and the names and contact details of two referees should be sent to Michèle Bucher, Human Resources WSL, by uploading the requested documents through the WSL webpage until 31 October 2021. <https://apply.refine.ch/273855/1217/pub/1/index.html> Applications via email will not be considered. Katalin Csilléry, [katalin.csillery@wsl.ch](mailto:katalin.csillery@wsl.ch), Tel. +41 44 739 23 43, will be happy to answer any questions or offer further information. The WSL strives to increase the proportion of women in its employment, which is why qualified women are particularly called upon to apply for this position.

“katalin.csillery@wsl.ch” <katalin.csillery@wsl.ch>

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### GreifswaldU Evolution Communication Spiders

PhD position available at the Zoological Institute & Museum University of Greifswald, Germany Biotremol-

ogy & multimodal communication in the spider *Pisaura mirabilis*

A Research Assistant (f/m/d) (PhD candidate) (65% TVL13) position is available in the DFG funded project “Chemical and vibratory communication: testing the role of spider silk in a reproductive context” in a joint collaboration project of Monika J. B. Eberhard, University of Greifswald and Cristina Tunì, LMU Munich. The position is limited to a period of 3 years, starting ideally in January 2022.

Project Rationale Animals communicate with each other using a wide range of sensory modalities, including chemical, vibratory and visual signals. The complex interplay between these signals is crucial for their survival and reproduction. Hence, understanding the functional role of multimodal signalling is key to the study of animal communication, and remains a major objective for behavioural ecologists. Spiders represent a particularly well-suited taxonomical group for studying the evolutionary function of vibratory- and chemical-based signalling. In the present project, we aim to uncover the functional roles of vibratory and chemical signals, as well as their interaction, by addressing silk-borne communication between the sexes in the spider *Pisaura mirabilis* (Pisauridae). In the course of the project, the PhD candidate will explore the functional role of male (and female) vibrational signals in a reproductive context by assessing whether vibratory courtship confers fitness benefits to the signaller. We will reveal whether *P. mirabilis* males are able to plastically adjust their vibratory performance to variation in female reproductive quality. We will additionally explore the role of silk in facilitating the transmission of vibratory signals. Furthermore, we will determine the use and integration of male multimodal communication components in females by assessing the interplay between vibratory and chemical courtship signalling, in close collaboration with a second PhD project based at LMU Munich who will focus on the chemical communication in *P. mirabilis*.

Tasks: i) Laser-vibrometer recording and behavioural analysis of male (and female) vibratory courtship in different contexts (see Eberhard et al. 2020 *Behav. Ecol. Sociobiol.* 74; Eberhard et al. 2020 *Ethology* 127, for details on *P. mirabilis* vibratory signals) ii) Conducting playback and mate choice experiments iii) Investigate fitness outcome (paternity share) of mating trials using microsatellite analyses iv) Assess transmission characteristics of signals on various substrates and dragline silk v) Design and conduct experiments combining vibratory and chemical signalling vi) Scientific publication and attendance of congresses

Your profile The successful candidate holds a degree

(M.Sc.) in a relevant field (e.g., zoology, ethology, evolutionary biology or other related biological discipline) and has a sound knowledge in behavioural ecology and experimental work. Ideally, the candidate has the necessary practical skills to conduct recordings with a laser-vibrometer and analyse vibratory/acoustic signals. Knowledge of competitive microsatellite PCR technique, multivariate statistical analysis of behavioural data (preferably in R) and publication experience in scientific journals are an asset. Furthermore, very good organizational and communication skills are required. Excellent English skills, oral as well as written are expected; German language skills are helpful but not mandatory. Since the present position is linked to a second PhD project conducted at LMU Munich, a strong sense of team spirit and the disposition to conduct part of the research at LMU Munich (ca. 3 months) is important.

We offer a creative, appreciative working environment with a high degree of personal responsibility in a diverse and motivated team. You will benefit from a research network of national and international cooperation partners, especially with the collaborators at LMU Munich.

About Greifswald: Founded in 1456, the University of Greifswald is one of the oldest universities in Germany and the Baltic Sea Region. Its research strength mainly originates in the intensive interdisciplinary collaboration of the five faculties, including University Medicine. Cutting-edge research is based on the solid foundation provided by an excellent research infrastructure. Greifswald’s position right next to the Baltic Sea makes it an attractive location for studying, teaching and research. It’s rich in cultural events and stunning nature, and a great place to live!

The University would like to increase the proportion of women in areas in which they are underrepresented. Applications from women are particularly welcome and will be treated with priority if they have the same qualifications and as long as there are no clear reasons, which

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

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## JagiellonianU Krakow EvolutionaryBiology

We are seeking a motivated Masters student for a project: Biological Clocks in the Wild: the effects of artificial light at night on circadian rhythms of a migratory bird at the Institute of Environmental Sciences, Jagiellonian University (Poland)

What do we study: It is well established that biological rhythms are fundamental drivers of biochemistry, cell biology, physiology and behaviour. The regularity of behaviours is governed by endogenous clocks, which are adjusted and synchronised with environmental cues, primarily light. Rapidly expanding anthropopressure largely disrupts these cues. Yet, it is surprising how little we know about the effects of disorders in the functioning of the internal time-keepers in free-ranging animals. The project will aim at understanding the effects of disturbance in environmental cues, i.e. light exposure, on circadian clock of a wild migratory bird: collared flycatcher (*Ficedula albicollis*). We will employ an experimental setup introducing artificial light at night in nestboxes during breeding season, at different stages of development and quantify its effects on circadian clock, physiology and behaviour. As a result we will try to build a comprehensive understanding of shifts in circadian rhythms and their consequences in a natural population.

Job description: The MSc candidate will actively participate in fieldwork (collecting phenotypic, biological and environmental data), analytical and lab work. S/he will be interacting with the PI and other team members, collaborators in Poland and worldwide, and attend relevant workshops and conferences. It is expected that the candidate will learn a large ecological skill set that will allow him/her to infer the evolutionary ecology of disturbed photoperiods in wild flycatchers. Specifically, the thesis will focus on the behavioral part of the project and the tasks will involve:

\* active participation in fieldwork across two breeding seasons (ca. 2-3 months each year) on the Swedish island of Gotland, \* installation of cameras and light sources in randomly selected nestboxes, \* recording, and then carefully viewing behavioral responses of birds in a dedicated software, \* analysing the results in cooperation with other team members.

Salary: A National Science Centre stipend (2000 PLN/month, tax-free stipend) is available for 24 months.

Requirements:

1) Formal conditions:

\* admission (or being already enrolled) to an MSc program at the Jagiellonian University (for example programs in English: [https://studia.eko.uj.edu.pl/en\\_GB/-ecoevo](https://studia.eko.uj.edu.pl/en_GB/-ecoevo), [https://studia.eko.uj.edu.pl/en\\_GB/epm](https://studia.eko.uj.edu.pl/en_GB/epm) or programs in Polish)

2) Specific merit requirements for the project include:

\* strong English language command, communication, organizational and collaboration skills; \* experience with field work (preferably with birds) is considered advantageous; \* bird ringing/handling experience, ethical permits to work with animals and driving license are a plus.

Informal enquiries: email to the principal investigator Joanna Sudyka ([joanna.sudyka@uj.edu.pl](mailto:joanna.sudyka@uj.edu.pl)).

The formal application should be sent by 1.10.2021 to Wioleta OleÅ (wioleta.oles@uj.edu.pl) with the term "MSc position" as email subject line and include:

1) CV (maximum 2 pages) including information on relevant academic achievements, relevant experience and training and contact information for two referees;

2) cover letter (maximum 1 page), explaining how the applicant's background and research interests make them a suitable candidate for the position;

3) signed copy of a formal statement concerning the processing of personal data, available here: [https://cawp.uj.edu.pl/en\\_GB/wynagrodzenia/stypendia](https://cawp.uj.edu.pl/en_GB/wynagrodzenia/stypendia) (Wzór oÅwiadczenia o przetwarzaniu danych osobowych)

The documents must be submitted in English or Polish.

The applications will be considered by a selection committee according to the regulations about scientific scholarships in research projects financed by the National Science Centre, Poland ([https://www.ncn.gov.pl/sites/default/files/pliki/regulaminy/-ncn\\_scholarships\\_in\\_projects.en.pdf](https://www.ncn.gov.pl/sites/default/files/pliki/regulaminy/-ncn_scholarships_in_projects.en.pdf))

In the lack of eligible applications, the enrollment will be extended or a new deadline will be announced.

Joanna Sudyka <[joanna.sudyka@uj.edu.pl](mailto:joanna.sudyka@uj.edu.pl)>

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## LundU HumanPalaeogenomics

### PhD STUDENT POSITION

- Human palaeogenomics on the Scandinavian Vikings and horses
- Based at the Department of Biology (Lund University).
- Application deadline: 15 October 2021.

### PROJECT DESCRIPTION

A four-year fully-funded PhD position is available to develop Machine Learning methods that will reconstruct the origin of domestic horses and help us understand their contribution to the success of Scandinavian Vikings. Ancient DNA (aDNA) has changed history studies, enabling us to analyze early genetic variation directly. In recent years, there has been a sharp increase in the amount of collected aDNA and high-profile investigations. Still, insufficient information about the timing and geographical origin has limited the usefulness of the collected data and resulted in many erroneous reports. The project aims to develop machine learning tools to date aDNA and predict the geographical origin of the DNA material. The ML methods developed for this project will be used to reconstruct the origin of domestic horses and their contribution to the success of Scandinavian Vikings. The analyses will use state-of-the-art genomic methods to assess the migration routes and subsequent changes in population structure and genetic diversity. The PhD student will join the community of bioinformaticians at Lund University and our international research team. The PhD student will join the lab group led by Eran Elhaik <http://www.eranelhaiklab.org/>, located at Lund University, Sweden.

### WORK DUTIES

Candidates are expected to be interested in biology and history alongside solid computational skills with a background in statistics, physics, computer science, and/or a related field. Candidates are also expected to have fundamental knowledge and experience with Machine Learning methods. The candidate will work jointly with Dr. Eran Elhaik, Dr. Patrik Eden, and Prof. Eske Willerslev (at the University of Copenhagen) to develop statistical methods for a project in population genetics.

This is a multi-disciplinary project involving programming and modeling. In addition, the project will involve

collaborations with researchers in other disciplines, including biomathematics, biostatistics, and molecular biology. The candidate is expected to have a strong grounding in programming in R and math/statistics.

The main duties of doctoral students are to devote themselves to their research studies which include participating in research projects and third cycle courses. The work duties can also include teaching and other departmental duties (no more than 20%).

### HOW TO APPLY

Lund University welcomes applicants with diverse backgrounds and experiences. We regard gender equality and diversity as a strength and an asset. We kindly decline all sales and marketing contacts.

To apply, please click the button “Login and apply” <https://lu.varbi.com/en/what:job/jobID:429496/> Eran [eran.elhaik@biol.lu.se](mailto:eran.elhaik@biol.lu.se)

Eran Elhaik <[eran.elhaik@biol.lu.se](mailto:eran.elhaik@biol.lu.se)>

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## MartinLutherU UrbanBeeEvolEcol

### PhD in Urban bee evolutionary ecology

A fully funded 3-year PhD position is available at the Martin Luther University Halle-Wittenberg, Institute of Biology, in the group General Zoology starting on 01.12.2021. The salary is according to national norms i.e. 13 TV-L (65%), which translates to approximately 27K-32K euros per annum (depending on experience).

The project: Cities are expanding worldwide and urbanization is considered a global threat to biodiversity. Urban ecology has provided important insights on how urban environmental changes affect bee species community structure. However, we know little about how the ecological impacts of urbanization affect the evolution of wild bee populations living in cities. We seek a highly motivated PhD student to investigate how consistent and predictable the effects of urbanisation are on adaptive and non-adaptive evolution of wild bee populations. The research work includes large scale sampling of bees in Germany, whole genome sequencing to generate single nucleotide polymorphism (SNP) data and landscape population genetics. We offer membership to an ambitious research team, modern facilities and an international research environment. Requirements:

- BSc/MSc in Biology or related subject
- Knowledge of wild bee biology, taxonomy and population genetics
- Field work experience
- Experience in speaking

and writing in English. Knowledge of German is an advantage - Driving license (class B) - Willingness to work under potentially uncomfortable field conditions - Team-oriented and strong organizational skills

Queries concerning the application process and for project-related questions, please contact Dr. Panagiotis Theodorou Tel.: +49 345 55-26511, Email: panagiotis.theodorou@zoologie.uni-halle.de

Submission deadline is 25/10/2021. Selected candidates will be invited to an online interview.

All applications should include: - Cover letter in English describing your motivation, research interests and relevant experience - Curriculum vitae including names and contact details of at least two scientific references - Digital copy of MSc/BSc/Diploma certificates and transcript of records

Kindly send your application in electronic form as a single PDF file, quoting the reference number 5-11800/21-D to Dr. Panagiotis Theodorou (panagiotis.theodorou@zoologie.uni-halle.de).

Dr. Panagiotis Theodorou

General Zoology, Institute of Biology Martin Luther University Halle-Wittenberg Hoher Weg 8, Room 6.10 06120 Halle (Saale), Germany Phone: +49(0)345 55 26511 Email: panatheod@gmail.com Web: <https://panatheod.wixsite.com/panagiotis-theodorou>

Panagiotis Theodorou <panagiotis.theodorou@zoologie.uni-halle.de>

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## MississippiStateU EvolutionaryGenomics

The Dapper Lab ([www.amy-dapper.com](http://www.amy-dapper.com)) at Mississippi State University is recruiting graduate students (M.S. or PhD) for positions starting Spring and Fall 2022.

The Dapper Lab uses evolutionary genomics to understand the evolution of reproductive traits. Students will have the opportunity to develop independent research projects that utilize both “wet” lab and “dry” lab approaches. We are a question-driven lab and current students are exploring a wide-range of systems (including humans, birds, alligators, and nematodes). Topics of interest in the lab include the population genetics of meiotic genes in birds and mammals, modeling selection pressures on recombination rate in human populations, and the rapid evolution of reproductive genes.

The Dapper Lab is part of the Department of Biological Sciences (<https://www.biology.msstate.edu/>) and accepts students through two graduate programs:

\* Biological Sciences (<http://biology.msstate.edu/-degrees/graduate/>) \* Computational Biology Interested students should contact Dr. Amy Dapper (dapper@biology.msstate.edu) before applying to discuss which graduate program to target.

Amy L Dapper, PhD Assistant Professor Department of Biological Science Mississippi State University

“Dapper, Amy” <dapper@biology.msstate.edu>

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## NorthCarolinaStateU RaccoonGenomics

Title: PhD Assistantship - Population Genomics of Urban Raccoons

Agency: NC State University/North Carolina Museum of Natural Sciences

Location: Raleigh, NC

Start Date: August 2022

Job Description: The Kierepka Laboratory combines genomic and bioinformatic analyses to investigate the effects of environmental heterogeneity on wild animal populations. We focus on multiple questions within these interests including landscape effects on gene flow, spatial mark-recapture of elusive species, detection of cryptic evolutionary lineages, and how human-dominated landscapes influence contemporary evolution. For this position, the PhD student will lead an evolutionary and population genomics study of urban raccoons across the United States. This project aims to elucidate how raccoons adapt to urban environments within and outside the eastern rabies endemic zone. The position will involve extensive laboratory work (DNA extraction, PCR, and genomic library preparation) as well as bioinformatic analysis of whole genome sequencing. Field work will be very limited. The student will be housed in the Forestry and Environmental Resources Department at NCSU as well as at the North Carolina Museum of Natural Sciences. The museum offers numerous opportunities for outreach and science communication in beautiful downtown Raleigh. The student will also have opportunities to explore their own research questions in conjunction with the project. This position is fully funded for 4 years.

North Carolina State University is an R1 institution located in Raleigh, North Carolina, which is located approximately two miles from the North Carolina Museum of Natural Sciences. Raleigh is a vibrant city within the world famous Research Triangle and offers numerous attractions including a thriving restaurant and brewery crowd, William B. Umstead State Park, numerous bike and walking trails, museums, and open air markets.

Qualifications: M.S. degree in Wildlife Ecology, Genetics/Genomics, Zoology, Biology, or related fields. Interest in pursuing genomic questions in wildlife is a must; the majority of work is laboratory-based for projects in my lab. Previous experience with genomic or genetic methods including DNA extraction, PCR, general wet laboratory skills, and genomic analysis are desirable. Although familiarity with bioinformatics and molecular techniques are desirable for this position, previous experience in all areas is not required. Please do not self-select yourself out of applying.

Salary: ~\$25,000/yr, tuition, health insurance, with additional resources available for students interested in teaching.

Application Deadline: applications will be evaluated as they arrive, but final deadline is October 20, 2021. Interviews will begin in early November.

Contact: Diversity and inclusion are a high priority in my lab; I highly recommend all interested applicants contact me directly prior to applying to the graduate program. To apply for this position, please submit a letter of interest, CV, unofficial transcripts, and contact information for three potential references as a single pdf document to Dr. Liz Kierepka (emkierrep@ncsu.edu). Please do not hesitate to contact me with any questions.

Liz Kierepka Senior Research Biologist/Assistant Research Professor North Carolina Museum of Natural Sciences/North Carolina State University Forestry and Environmental Resources Department lizkierepka.com <emkierrep@ncsu.edu>

Liz Kierepka

Elizabeth M. Kierepka Senior Research Scientist, Biodiversity Laboratory North Carolina Museum of Natural Sciences Assistant Research Professor, Dept Forestry and Environmental Resources North Carolina State University liz.kierepka@naturalsciences.org emkierrep@ncsu.edu Website: lizkierepka.com

Liz Kierepka <emkierrep@ncsu.edu>

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## Norway Canada AlpineLakeFish

MSc and PhD positions in Ecological genomics of freshwater fish in alpine lakes (Norway and Canada).

We are recruiting PhD and MSc students to examine fish winter and summer ecology in the Chic-Chocs Mountains (Québec, Canada), linking ecological, behavioural and evolutionary drivers of fish life-cycle in alpine lakes. The project is co-led by the Mi'gmaq organization MMAFMA on whose traditional territories this work takes place. It is funded by the Canadian Mountain Network ([www.canadianmountainnetwork.ca](http://www.canadianmountainnetwork.ca)) and is done in collaboration with provincial government agencies (MFFP & Siġ PAQ). Fish species studied will include Arctic charr, lake trout, and brook trout and key approaches include genomics, eDNA, morphology, telemetry, isotopes, fatty acids, otoliths, food-web ecology.

Application deadline: October 1, 2021. Skills and experience: Ideally, candidates will have previous research experience with fish ecology, molecular biology, population genetics, statistics, and/or field work in alpine/remote locations. Knowledge of French is an asset for some positions but not required. Indigenous applicants will be given priority. Start date: January 2022 but negotiable

Location: Université Laval (PhD & MSc positions) and The Norwegian University of Life Sciences (PhD position).

Submission process: All documents must be submitted to Louise Chavarie (louise.Chavarie@nmbu.no). Cover letter demonstrating fit and interests in the positions described above. Current CV demonstrating relevant research experience and background Names/contact information for two references.

We are committed to foster aculture of inclusion. The project CREA\_CC invites and encourages applications from all qualified individuals, including from groups that are traditionally underrepresented in employment (especially indigenous students because the co-leader of this project is MMAFMA), who may contribute to further diversification of our team.

Louise Chavarie <chavarie@ualberta.ca> Louise Chavarie <chavarie@ualberta.ca>

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## SouthernIllinoisU SturgeonConsGenetics

Student Ad for Evoldir Reply-To: "Heist, Edward J"  
<edheist@siu.edu>

Graduate Position - Sturgeon Conservation Genomics

Ph.D. research assistantships including stipend and tuition waiver are available to begin in 2022 in the laboratory of Dr. Ed Heist at Southern Illinois University Carbondale (<https://conservationgenetics.siu.edu/>) in conjunction with Dr. Greg Whitledge and the SIUC Center for Fisheries, Aquaculture & Aquatic Sciences (<https://fisheries.siu.edu/>). Research projects will involve development and scoring of genomic markers (SNPs) using Illumina high-throughput sequencing technology and application of fin ray microchemistry for conservation of endangered Pallid Sturgeon. Opportunities exist for field work in addition to laboratory analyses. Ideal candidates will have prior experience with molecular genetics and computer programming (e.g. R, Python). Interested students should contact Dr. Ed Heist at edheist@siu.edu.

Edward J. Heist, Ph.D. Professor of Zoology Associate Director, Center for Fisheries, Aquaculture, & Aquatic Sciences 1125 Lincoln Drive - Room 251 Southern Illinois University Carbondale

Carbondale, IL 62901 Voice: (618) 453-4131 <http://conservationgenetics.siu.edu/> "Heist, Edward J"  
<edheist@siu.edu>

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## StockholmU EvolutionAvianLearning

PhD position on song learning in birds

Disentangling early life experience and genetics in song learning

Based at the Department of Zoology, Stockholm University

Application deadline: 2021-11-05 (opens 2021-10-15)

Project description

A 4-year PhD position, funded by the European Research Council, is available in the research group of David Wheatcroft (<https://wheatcroftlab.com/>). We utilize an inter-disciplinary approach to disentangle the roles of early life experience and genetics in song learning in pied flycatchers (*Ficedula hypoleuca*), collared flycatchers (*F. albicollis*), and their hybrids. These approaches include long-term field monitoring, behavioral experiments in the field and laboratory (including operant conditioning), acoustic analysis, neuroscience, and genomics. A major focus is understanding the build-up of species (and population) differences in songs and song preferences.

Within this framework, the exact focus of the project is flexible and depends on the specific interests and skills of the applicant. Among other topics, the project could focus on the proximate mechanisms underlying responses to songs in juvenile birds and connecting these responses to subsequent learning, utilizing behavioral and/or neuroscientific approaches to assess auditory-vocal development, and exploring how early life conditions influence subsequent behavioral traits, including song.

An important focus of the research would be on groups of juvenile pied flycatchers, kept at Tovetorp research station, around 1.5 hour from Stockholm University (<https://www.tovetorp.com/>). Captive-rearing allows us to manipulate song experience and track the development of auditory ability and song production. In addition, we study wild flycatchers during the breeding season, allowing for projects connecting the lab with the field.

Research environment

A vibrant, international, and collaborative research environment in the Department of Zoology at Stockholm University (<https://www.su.se/zoologi/english/>). The Department of Zoology consists of five divisions: Ecology, Ethology, Functional Morphology, Population Genetics, and Systematics and Evolution. At present the department accommodates 45-50 staff and a similar number of PhD students. The advertised position will be part of the Division of Ethology. There is a long-standing tradition for researchers at the Division of Ethology to collaborate with researchers from other fields, such as evolutionary ecology, theoretical evolutionary biology, and the study of cultural evolution.

Selection criteria The selection among the eligible candidates will be based on their capacity to benefit from the training. The following criteria will be used to assess this capacity: the candidates' documented knowledge in a relevant field of research, written and oral proficiency in English, the capacity for analytical thinking, the ability to collaborate, as well as creativity, initiative,



and independence. The assessment will be based on previous experience and grades, the quality of the degree project, references, relevant experience, interviews, and the candidate's written motivation for seeking the position.

Candidates should have demonstrated knowledge and skills in evolutionary biology, behavioral ecology, and/or neurobiology. An ideal candidate would have significant experience conducting research on song birds or utilizing similar approaches in other systems. Additional advantageous skills would be handling and keeping birds in captivity, acoustic analysis, and/or field experience.

#### How to apply

The application must be submitted using Stockholm University's recruitment system and consists of a cover letter, CV, research proposal, contact information for 2-3 references, along with some official documents. On October 15, the complete application details and link will be available at: <https://www.su.se/english/about-the-university/work-at-su/available-jobs/phd-student-positions-1.507588>

#### Contact

For more information, please contact David Wheatcroft, [david.wheatcroft@zoologi.su.se](mailto:david.wheatcroft@zoologi.su.se)

David Wheatcroft

Department of Zoology Stockholm University Svante Arrheniusväg 18 B Room D 543

David Wheatcroft <[david.wheatcroft@zoologi.su.se](mailto:david.wheatcroft@zoologi.su.se)>

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## StockholmU WildlifePalaeogenomics

### PhD STUDENT POSITION

- Wildlife palaeogenomics on the postglacial recolonisation of Scandinavia
- Based at the Centre for Palaeogenetics and Department of Zoology (Stockholm University).
- Application deadline: 25 September 2021.

### PROJECT DESCRIPTION

A four-year fully funded PhD position is available to investigate the postglacial recolonisation of Scandinavia using a combination of ancient and modern DNA from several different vertebrate species. The analyses will use state-of-the-art genomic methods to assess recolonisation routes and subsequent changes in population struc-

ture and genetic diversity. This PhD project is part of a wider research programme funded by the Swedish Research Council called "Pioneers of Scandinavia", where the interaction between early humans, animals and plant communities will be examined. The PhD student will join the research group led by Love Dalén at the Centre for Palaeogenetics (see [www.palaeogenetics.com](http://www.palaeogenetics.com)), located on the Stockholm University campus. The PhD student will also be affiliated to the Swedish Museum of Natural History.

### SELECTION CRITERIA

The selection among the eligible candidates will be based on their capacity to benefit from the training. The following criteria will be used to assess this capacity: the candidates' documented knowledge in a relevant field of research, written and oral proficiency in English, the capacity for analytical thinking, the ability to collaborate, as well as creativity, initiative, and independence. The assessment will be based on previous experience and grades, the quality of the degree project, references, relevant experience, interviews, and the candidate's written motivation for seeking the position. In addition, experience in population genetics, bioinformatics and laboratory DNA analysis are important qualifications. For complete information on the qualification requirements, please see the full advertisement (link below).

### RESEARCH ENVIRONMENT

The PhD student will be based at the Centre for Palaeogenetics (CPG) in Stockholm, which is a newly established research centre with state-of-the-art laboratory facilities and modern offices and meeting areas. CPG is jointly funded by the Swedish Museum of Natural History and Stockholm University. The centre is a multidisciplinary research environment with staff from departments in biology, archaeology and geology, who are all dedicated to analyses of ancient and modern DNA to investigate prehistory. CPG currently houses a staff of 22 persons, including 6 PhD students and 8 postdocs. It is an international workplace, with the current staff coming from 11 different countries. Located on the Stockholm University campus, CPG is part of a vibrant genomics community in Stockholm, by many considered one of the most beautiful cities in the world.

### HOW TO APPLY

Apply for the PhD student position using Stockholm University's recruitment system. It is the responsibility of the applicant to ensure that the application is complete in accordance with the instructions in the advertisement, and that it is submitted before the deadline.

### LINK TO RECRUITMENT SYSTEM

<https://www.su.se/english/about-the-university/-work-at-su/available-jobs/phd-student-positions-1.507588?rmpage=job&rmjob=15739&rmlang=UK>

Stockholm University strives to be a workplace free from discrimination and with equal opportunities for all.

Love.Dalen@nrm.se

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## StonyBrookU EvolutionaryBiol

### GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Graduate Program in Ecology and Evolution at Stony Brook University is recruiting doctoral and master's level graduate students for Fall 2022.

The department has a long and distinguished history, being one of the first of its kind in the US. It currently has a productive and diverse faculty working on a broad array of questions involving humans and primates, microbes, plants, vertebrate and invertebrate animals and whole ecosystems. Field locales span the globe from the old and new world tropics to the Arctic and Antarctic polar regions, as well as the uplands, wetlands and coastal areas of Long Island and nearby New York City. Being within a train ride to New York City, Stony Brook is a diverse campus, and we are implementing programs to build an even more diverse program in the future.

Upon admission, PhD students are guaranteed teaching assistantships, with additional support available through fellowships and research assistantships, as they become available. The deadlines for applications are \*Dec. 1, 2021 for the PhD\* program. The preferred deadline for the \*MA program is January 15, 2022\*, but applications are considered on a rolling basis until \*April 15, 2022\*. GREs are not required for applications to Stony Brook University this year. Application fees may be forgiven for applicants that meet specific guidelines. Please contact us for more information.

Below is a listing of current local program faculty to whom questions can be directed. It is \*highly recommended < [https://www.stonybrook.edu/commcms/ecoevo/\\_program/application.php](https://www.stonybrook.edu/commcms/ecoevo/_program/application.php) >\*

that PhD applicants contact faculty and identify potential advisors before submitting an application < [https://www.stonybrook.edu/commcms/ecoevo/\\_program/application.php](https://www.stonybrook.edu/commcms/ecoevo/_program/application.php) >. Faculty are more than willing to entertain questions about the program

generally and about their own labs and research. Not all will be taking students, but they will all gladly discuss what the program and the locale. For questions or assistance with the application process please e-mail our Graduate Program Coordinator, Melissa Cohen [melissa.j.cohen@stonybrook.edu](mailto:melissa.j.cohen@stonybrook.edu). More information about applying can be found here.

[https://www.stonybrook.edu/commcms/ecoevo/\\_program/application.php](https://www.stonybrook.edu/commcms/ecoevo/_program/application.php) DEPARTMENTAL FACULTY

H. Resit Akcakaya - Population and conservation ecology  
\*<https://akcakaya.weebly.com/>

Stephen B. Baines - Ecosystem ecology and biogeochemistry

\*<https://life2.bio.sunysb.edu/ee/baineslab/> Rafael D'Andrea - Community and Theoretical Ecology

\*<https://sites.google.com/view/rafaeldandrea/home> Liliana M. Di $\frac{1}{2}$ valos - Vertebrate phylogenetics, biogeography and conservation <https://lmdavalos.github.io/>

Walter F. Eanes - Evolutionary genetics of Drosophila <https://life2.bio.sunysb.edu/ee/eaneslab/> Jessica Gurevitch - Research synthesis, plant population and invasion ecology <https://gurevitchlab.weebly.com/> Jeffrey S. Levinton - Marine ecology and paleobiology \*<https://sites.google.com/view/levintonlab/> Heather J. Lynch - Quantitative ecology and conservation biology <https://lynchlab.com/>

Ross H. Nehm - Science education, evolution education, cognition [https://www.stonybrook.edu/commcms/ecoevo/\\_people/\\_faculty\\_pages/nehm.php](https://www.stonybrook.edu/commcms/ecoevo/_people/_faculty_pages/nehm.php)

Dianna K. Padilla - Marine and freshwater ecology, conservation and invasion biology \*<https://life2.bio.sunysb.edu/ee/padillalab/> Joshua Rest - Evolutionary genomics \*<https://phylogenetic.com/> < <https://phylogenetic.com/> >\*

Tara M. Smiley - Paleoecology and biogeography <https://www.tarasmiley.com> Pascal Title - macroevolution and spatial macroecology <https://www.pascaltitle.com>

Robert W. Thacker- Systematics, phylogenetics, and ecology \*<https://thackerlab.weebly.com/>

John R. True - Evolutionary Genetics

<https://lioutrue.wixsite.com/truelab2019> Krishna R. Veeramah - Population genetics, evolutionary genomics

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## ThompsonRiversU BirdBatEvolution

The Behaviour, Evolution, and Conservation Lab (BEAC Lab) at Thompson Rivers University (Kamloops, BC) is seeking two M.Sc. students to lead projects on trait and behaviour evolution in birds and bats. The positions will begin in 2022 (January, May, or September start dates are all possible).

Project Description: Recent work in the BEAC Lab has focused on large-scale phylogenetic analyses aimed at understanding the evolutionary drivers of trait evolution in both birds and bats. For example, recent students have investigated body size and plumage evolution on islands across all passerines, the evolutionary drivers of altitudinal migration, and the ecological factors promoting different moult strategies. We have compiled massive trait databases for all species of birds and bats and have several projects to explore (e.g., brain size evolution, sexually selected trait evolution, mating system evolution) depending on the students' background and interests. All research will be computationally intensive and require extensive work in R. There is no field work required as part of this project, though students are always encouraged to help out on field crews working on other project in my lab (mountain bluebirds and mountain chickadees) in the summer. To get a better sense of research done in the BEAC Lab, visit [www.mattreudink.com](http://www.mattreudink.com) and check the publications page.

Students will be funded at \$18,500/year by a combination of graduate research awards, teaching assistantships, and supervisor stipend. Canadian citizens and permanent residents strongly encouraged; unfortunately, international tuition costs are prohibitively expensive and tuition waivers are not available.

Qualifications: Candidates must possess a Bachelor's degree in Biology, Zoology, or related field. Academic transcript must meet the qualifications required for entrance to the Masters of Environmental Science program at TRU (<https://www.tru.ca/science/masters-degrees/-msecs.html>).

The ideal candidate will have experience working with R and a solid foundation in statistics. In addition, candidates must possess a strong understanding of evolutionary theory and a passion for problem solving. Strong writers and applicants with research experience (e.g.,

Honours research) encouraged. Candidates must be able to work collaboratively in a large team environment consisting of undergraduate and graduate students.

About TRU and the BEAC Lab: Thompson Rivers University campuses are on the traditional lands of the Tk'emlÁops te Secwépemc (Kamloops campus) and the T'exelc (Williams Lake campus) within Secwépemc'ulucw, the traditional and unceded territory of the Secwépemc people. Our region also extends into the territories of the Stat'imc, Nlaka'pamux, Nuxalk, Tsilhqot'in, Dakelh and Métis peoples.

TRU is a primarily undergraduate institution with only masters programs (no PhD program) and a strong emphasis on undergraduate research. As a result, M.Sc. students in my lab work closely and collaboratively with undergraduates.

Kamloops, BC is located in Interior British Columbia between the Coast Range and the Rocky Mountain. The climate is fantastic with hot summers, cold winters, and amazing outdoor recreation. Sun Peaks (Canada's second largest ski resort behind Whistler) is only 40 minutes away and the mountain biking in Kamloops is legendary.

The BEAC Lab is a strong proponent of Equity, Diversity, and Inclusion and encourages applications from BIPOC, LGBTQIA2+, and other under-represented groups.

To Apply: Please send a cover letter, CV, unofficial transcripts, and contact information for 3 references to Matt Reudink ([mreudink@tru.ca](mailto:mreudink@tru.ca)). Applications will be considered as they are received until the position is filled.

Matthew Reudink <[Mreudink@tru.ca](mailto:mreudink@tru.ca)>

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## UAlabama ComparativePopGenomicsBumbleBees

PhD Position in Comparative Population Genomics of Bumble Bees and their Color Patterns:

A PhD position is available in the laboratory of Jeff Lozier at The University of Alabama ([lozierlab.ua.edu](http://lozierlab.ua.edu)) as part of a recently awarded NSF project: "How many routes to the same phenotype? Genetic changes underlying parallel acquisition of mimetic color patterns across bumble bees". This project is a collaboration with Dr Heather Hines at Penn State ([hineslab.org](http://hineslab.org)) and

Dr Jonathan Koch at the USDA Bee Lab in Logan, UT ([jonathanbkoch.weebly.com](http://jonathanbkoch.weebly.com)).

The PhD student will be involved in an interdisciplinary project to study the origins of color pattern variation in bumble bees. The focus of this position will be on comparative population genomics from whole genome re-sequencing of many North American bumble bee species. Range-wide whole genome data is already available in the lab for many bumble bee species, and the PhD student will be involved in additional field work and generation/analysis of high-throughput sequencing data. The student will also be able to make use of these extensive data sets to develop projects relating to conservation, evolutionary, and landscape genomics.

We are looking to recruit a highly motivated student with interests in applying modern molecular and computational tools in a charismatic and ecologically important non-model group. Students will join an active, diverse, collaborative, and friendly lab ([lozier-lab.ua.edu/people.html](http://lozier-lab.ua.edu/people.html)) and department (U Alabama Biological Sciences: [bsc.ua.edu](http://bsc.ua.edu)). We also expect substantial opportunities for collaboration with all PIs and students/postdocs associated with the project.

Contact Jeff Lozier ([jlozier@ua.edu](mailto:jlozier@ua.edu)) for more information. The position is available starting Spring 2022 but students interested in Summer or Fall 2022 are also encouraged to apply.

[jlozier@ua.edu](mailto:jlozier@ua.edu)

## UAlmeria PlantGenomeEvolution

Theme:

SEARCH FOR CANDIDATES TO APPLY FOR A PREDOCTORAL SCHOLARSHIP IN PLANT EVOLUTIONARY GENOMICS AT THE UNIVERSITY OF ALMERIA (UAL; ALMERIA, SPAIN).

Job description:

The research group of Plant Evolutionary Genomics at UAL (SICA id BIO359) is currently looking for candidates to apply for a PhD fellowship in the FPU 2021 call from the Spanish Ministry of Universities or any of the different competitive calls that are expected to open application deadlines starting in October 2021 (eg, La Caixa, Youth Guarantee). The doctoral thesis will be performed at the Department of Biology and Geology at UAL within the framework of a research project re-

cently funded by the Spanish Ministry of Science and Innovation. The main purpose of the project is to study the origin and evolution of new genes and novel gene functions in plants. The project is organized around two major research lines:

i) Investigating the role of gene and genome duplication in promoting evolutionary innovation and adaptation in plants using deep learning- based probabilistic approaches.

ii) Unravelling the impact of organellar DNA on the evolution of plant nuclear genome structure and function.

It is an interdisciplinary research project that integrates bioinformatics and evolutionary genomics studies with inferential statistics and robust machine learning approaches. The project anticipates collaborations and stays with researchers from UAL, as well as national and international researchers in molecular biology, evolutionary genomics, mathematics or computer science.

Requirements:

Candidates must be eligible to apply for an official PhD program at a Spanish university during the academic year 2021-2022. I am looking for a highly motivated candidate with strong leadership, initiative and the ability to work in a multidisciplinary team. Candidates must show a genuine interest in evolutionary biology studies at the molecular level and have academic training in biology, biotechnology or bioinformatics preferably, although they will also be considered candidates with a background in mathematics or computer science. The successful candidate is expected to contribute to the design of software and / or computational pipelines, the analysis of the results and the writing of conference presentations and research articles. Therefore, the candidate should ideally have previous experience in omics-data analysis, knowledge of a programming language, preferably LINUX Shell, PERL, R and / or Python, and excellent oral and written communication skills in both Spanish and English. Teaching in the degrees and Master of Biotechnology at UAL as well as supervision of undergraduate students is also expected.

Deadline:

Please send your application documents, including complete CV, academic record and motivation letter to Prof Dr Lorenzo Carretero-Paulet ([lpaulet@ual.es](mailto:lpaulet@ual.es)), by latest December 31, 2021 or until a suitable candidate is found.

References:

If you need further information please feel free to contact Prof Dr Lorenzo Carretero-Paulet at [lpaulet@ual.es](mailto:lpaulet@ual.es).

Please, visit the links below for a complete list of publications.

<https://www.researchgate.net/profile/Lorenzo-Carretero-Paulet> <https://scholar.google.com/citations?user=EZ1uMYcAAAAJ&hl=en> . \*Dr  
Lorenzo Carretero Paulet\* Assistant Professor of Genetics Department of Biology and Geology <<https://cms.ual.es/UAL/universidad/departamentos/-biologiaygeologia/index.htm> >

University of Almería  $\frac{1}{2}$ a (UAL) Ctra. Sacramento s/n  
Escuela Superior de Ingeniería  $\frac{1}{2}$ a (Despacho 2.32) 04120  
Almería  $\frac{1}{2}$ a Spain

Phone: +34 950015565 Fax: +34 950015476 E-mail:  
\*lpaulet@ual.es\*

LORENZO CARRETERO PAULET <lpaulet@ual.es>

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## UBergen SpiderSystematics

We are seeking for a motivated candidates for a fully funded 4 year PhD position in spider systematics and biogeography at the University Museum of Bergen. If you like spiders and are interested in systematics and biogeography do not hesitate to apply.

In addition to offering excellent working conditions, the University of Bergen and its museum are in the hearth of Bergen and nearby some of the most beautiful Norwegian landscapes.

More information and application instructions are available at the following link

<https://www.jobbnorge.no/en/available-jobs/job/-212205/phd-fellowship-position-in-biosystematics-and-biogeography-lynyphiid-spiders-biogeography-and-evolution> Dimitar Dimitrov, PhD Associate Professor Department of Natural History, University Museum of Bergen, University of Bergen Postboks 7800, 5020 Bergen, Norway Home Page: <http://www.dimitardimitrov.name> Google Scholar: <http://scholar.google.com/citations?user=mfemh8gAAAAJ>  
Dimitar Dimitrov <dimitard.gwu@gmail.com>

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## UCalifornia Irvine EvolutionaryGenomics

Graduate Student in Evolutionary Functional Genomics at UC Irvine

The Briscoe, Emerson, Gaut, Kvon, Lee, Long, and Thornton labs at the University of California, Irvine are looking for prospective Ph.D. students to join us. Research in our labs probes the connection between variation in genes and genomes and how that affects organismal phenotypes. These labs specialize on topics in evolutionary genetics, including genome structural variation, evo-devo, epigenomics, genomics of domestication, transposable element evolution, experimental evolution, molecular evolution of the visual system, the genetics of complex traits, population and behavioral genetics. The common theme is that we combine evolutionary biology with genomics approaches (3rd-generation sequencing, transcriptomics, epigenomics, 3D genomics, genome editing etc) to understand the evolutionary causes and functional consequences of natural variation. Our students train in both “wet” and “dry” lab approaches. While many specialize in bioinformatics and big data methodologies, others carry out cutting-edge genomics experiments or specialize in dissecting organismal traits (e.g, domestication, vision, Lyme disease). There is strong interaction and collaboration across labs, and co-advising is common and welcome. Each lab also has a strong dedication to individual development and mentoring.

We are part of the Department of Ecology and Evolutionary Biology (<https://ecoevo.bio.uci.edu/>), the Center for Evolutionary Genetics (<https://evogen.bio.uci.edu/>), and Center for Complex Biological Systems (<https://ccbs.uci.edu/>), which is a vibrant multi-disciplinary center.

More information about the research interests of individual labs can be found at

Adriana Briscoe: <https://visiongene.bio.uci.edu/-Adriana.Briscoe/Home.html> J.J. Emerson: <http://emersonlab.org/> Brandon Gaut: <https://www.gautlab.bio.uci.edu/> Evgeny Kvon: <https://www.kvonlab.org/> Grace Lee: <http://grylee.science/> Tony Long: <http://wfitc.bio.uci.edu/~tdlong-sandvox/> Kevin Thornton: <https://www.molpopgen.org>

We accept students through three graduate programs

- Ecology and Evolutionary Biology (<https://ecoevo.bio.uci.edu/graduates/admissions/>, deadline Dec 1st, 2021) - Cell and Molecular Biology - Genetics, Epigenetics, and Genomics track (<https://cmb.uci.edu/admissions/>, deadline Dec 1st, 2021) - Mathematical Cellular and Systems Biology (<https://ccbs.uci.edu/education/mcsb/admissions/>, deadline Dec 10th, 2021) Interested applicants should contact PIs beforehand to directly discuss which graduate programs may be the best to apply to.

Grace Yuh Chwen Lee <grylee@uci.edu>

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## UDenver OriginSponges

Scott Nichols' lab ([scottnicholslab.weebly.com](http://scottnicholslab.weebly.com)) at the University of Denver, Department of Biological Sciences, is recruiting graduate students for the 2022/23 academic year. The Nichols lab studies the molecular and cellular foundations of animal origins. Three main areas of research include 1) the evolution of epithelial organization, 2) the origin of novel animal cell types, and 3) the evolution of microbial recognition and response mechanisms in animals (innate immunity). We address these topics primarily through the study of sponges, but with opportunities for comparative work in cnidarians (sea anemones). Students are welcome to work in any of these broad areas and encouraged to become the intellectual drivers of their own projects. Our research is integrative and incorporates methods for cell and developmental biology, genomics and proteomics, molecular biology and biochemistry - but at the core we are organismal biologists and strive to always interpret our results in the broadest evolutionary context, and at the whole-organism level.

The University of Denver is located minutes from downtown Denver Colorado, at the edge of the Rocky Mountains. The Department of Biological Sciences is currently composed of 21 tenure-track faculty and ~40 graduate students. The application deadline is January 15th, 2022, the GRE exam is not required. Because the department is "direct admission," students are assigned to a specific lab at the point of admission rather than rotating between labs in their first year. Therefore, before applying, applicants should directly contact Scott Nichols ([scott.nichols@du.edu](mailto:scott.nichols@du.edu)) to discuss their interest in joining the lab. At point of contact, please provide some background about yourself, including stating your specific interests in the Nichols lab. Both MS and PhD

students are offered full tuition remission and a living stipend. This applies to both domestic and international applicants.

The most competitive applicants will have taken undergraduate courses in cell and molecular biology and evolution. Experience with molecular biology techniques in a research lab setting is preferred but not required.

Scott Nichols, Ph.D.

Associate Professor Department of Biological Sciences  
2101 E. Wesley Ave SG Mudd #288 University of Denver  
Denver, CO 80208

email: [sa.nichols321@gmail.com](mailto:sa.nichols321@gmail.com) lab homepage: Nichols Lab Homepage phone: 303-871-5658

Scott Nichols <[sa.nichols321@gmail.com](mailto:sa.nichols321@gmail.com)>

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## UFlorida PolarBearGenomics

We are looking for a PhD student for an upcoming project in polar bear evolutionary genomics.

Location: University of Florida, Gainesville, Florida

Department: Environmental Engineering Sciences

Project description: Polar bears are the largest extant terrestrial carnivore, an iconic apex predator with a host of unique adaptations and a high-profile at-risk species from climate change. We are developing projects to explore polar bears' genomes to understand, the evolutionary processes of speciation and adaptation and to facilitate conservation activity. Areas of study will include: comparative, population and functional genomics.

Ideal Candidate: Enthusiasm, work ethic and eagerness to learn are the most important traits in an applicant. Additional useful skills include: an understanding of evolutionary principals, bioinformatics or computer science experience including bash, python and R, strong English language writing and communication. These skills can be taught so please don't rule yourself out if you don't tick all these boxes but are eager to learn. Our work is highly collaborative and will involve interactions with researchers from other institutions and potentially other countries, so a collaborative outlook and willingness to work with others is very important.

If you are interested, please send your CV, along with a brief informal statement about why you are interested in joining the lab to me (James Cahill) at:

james.cahill@ufl.edu

“Cahill, James” <james.cahill@essie.ufl.edu>

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## UFreiburg Evolutionary Theory

We are seeking a doctoral student to join the group of Dr. Jonathan Henshaw at the University of Freiburg in Germany (<https://www.henshaw-lab.com/>). We are a theoretical lab working on a broad set of topics in evolutionary biology, with a particular focus on sexual selection and the evolution of mating systems and parental care. We approach these topics using evolutionary game theory, quantitative genetics and simulation models. As a doctoral student in our lab, you would have considerable freedom to shape the direction of your project within these broad areas of interest.

**\*\*Duration, start date, salary\*\***

The position is for 3 years with the possibility for extension. The start date is flexible but preference will be given to candidates who can start by the end of 2021. Salary is at the TV-L E13 50% level (currently a minimum of EUR 2037 per month before taxes and social security contributions).

**\*\*Requirements\*\***

Applicants must have:

- A Master's degree in biology, mathematics, statistics or another relevant discipline (in exceptional cases applicants with only a Bachelor's degree will be considered)
- Theoretical skills with relevance to evolutionary biology (e.g., quantitative genetics, game theory, or simulation modelling). Applicants with a background in relevant mathematical disciplines (e.g., stochastic processes) will be also be considered.
- Proficient spoken and written English

Additionally, the following will be seen favourably:

- Publications in peer-reviewed journals - Coding abilities (e.g., in R, Python, C++ or Mathematica) - Research interests in sexual selection and the evolution of mating systems or parental care

**\*\*How to apply\*\***

Applicants should send an email to Dr. Jonathan Henshaw ([jonathan.henshaw@biologie.uni-freiburg.de](mailto:jonathan.henshaw@biologie.uni-freiburg.de)) with the following:

- Cover letter indicating reasons for wanting to join the

lab and outlining educational background and relevant skills - CV - Transcripts of Master's and Bachelor's degrees - Contact details for two referees (it is not necessary to send reference letters)

The deadline for applications is 1 November 2021 (note that this deadline has been extended). Applications submitted before this date will be considered as they arrive.

We welcome all candidates regardless of gender, sexual orientation, race, ethnic origin, religion, or disability. Both national and international applicants are encouraged.

Jonathan Henshaw

Junior Professor Institute of Biology I (Zoology) University of Freiburg Hauptstraße 1 79104 Freiburg i. Br. Germany

Email: [jonathan.henshaw@biologie.uni-freiburg.de](mailto:jonathan.henshaw@biologie.uni-freiburg.de)  
Phone: + 49 761 203 2567

Jonathan Henshaw <[jonathan.henshaw@biologie.uni-freiburg.de](mailto:jonathan.henshaw@biologie.uni-freiburg.de)>

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## UGreifswald Evolutionary Biomathematics

Where: University of Greifswald, Germany What: PhD position When: any time, the starting date is negotiable

I am searching for a highly motivated PhD student to join my Biomathematics and Stochastics group as soon as possible! The broad area of the PhD project will be graph theory with applications in mathematical phylogenetics, but the successful candidate is very welcome to discuss his or her own interests with me and help shape the project! If you are interested or know someone who might be interested, let's talk about the details!

Greifswald is an absolute hub for biomathematics, and we are doing basic research in the area of graph theory and combinatorics applied to phylogenetics, e.g. to phylogenetic networks. Pre-knowledge in biomathematics might be helpful, but is not a must however, a mathematical (or similar) degree is required.

The official job announcement is in German, but knowledge of the German language is not a mandatory prerequisite. The starting date is negotiable. The position will be based here at the University of Greifswald in Germany, located directly at the Baltic Sea and very

close to the famous islands Rügen and Usedom – come and get your PhD in an area so beautiful that others go here on holidays :-). Greifswald University also has a lot to offer for PhD students beyond only thesis supervision. Come and join our graduate school or our mentoring program if you wish and enjoy the vibrant atmosphere in a small student town! Of course there is also funding for conference traveling etc.

The position is paid according to the German payment scheme TV-L 13 50%.

<https://www.uni-greifswald.de/universitaet/-information/stellenausschreibungen/-promotionsstellen/stellenausschreibung/n/-wissenschaftlicher-mitarbeiterin-institut-fuer-mathematik-und-informatik-21-si35/>

Should you have any questions, please do not hesitate to contact me. In case you wish to apply for the job, please do so until the 17th of October via email to the following address:

ag-fischer-biomathe@uni-greifswald.de

The email should contain ONE SINGLE PDF consisting of your CV, your university records, a short motivation letter and, if possible, names of two references.

I am looking forward to hearing from you!

Kind regards, Mareike Fischer

Prof. Dr. Mareike Fischer

Biomathematics and Stochastics

Institute for Mathematics & Computer Science Greifswald University Walther-Rathenau-Str. 47 Office 3.15 17487 Greifswald GERMANY

+49 (0) 3834 420 46 43

mareike.fischer@uni-greifswald.de

## UGroningen MacquarieU AvianInbreeding

PhD scholarship 'Inbreeding, mitochondrial performance and senescence in birds' (B045221)

We are looking for a student who wishes to design their own PhD research project researching inbreeding effects on senescence and physiological mechanisms of senescence. You will be supervised by Hannah Dugdale (RUG; <https://hannahdugdale.wordpress.com>), Simon Griffith (MQ; <https://griffithecology.com>), and David

S Richardson (University of East Anglia, UK; [https://people.uea.ac.uk/david\\_richardson](https://people.uea.ac.uk/david_richardson)).

This is a double degree at RUG and MQ. For the first two-years you will be based at RUG and embedded in the Seychelles Warbler Project (<http://seychelles-warbler-project.group.shef.ac.uk>). You will conduct fieldwork in the Seychelles for a minimum of two seasons (up to 3 months per season), with a COVID-19 contingency plan. For the second two-years you will be based in Australia on the MQ campus. You will be part of a team of PhD students, post-docs, and staff who are using long-term individual-based datasets of natural and captive populations to improve understanding of life-history evolution.

As a PhD scholarship student, you will develop your own research project in consultation with the associated supervisors. You will conduct independent and original scientific research, report results via peer-reviewed publications, conference presentations, and ultimately a PhD thesis. The PhD thesis has to be completed within four years. Being part of a cutting-edge research programme, you will receive training in the form of hands-on instruction, advanced courses, summer/winter schools, as well as complementary workshops on generic research and transferable skills. Special attention is paid to training activities directed towards your future (academic or non-academic) career after the PhD trajectory, in the context of the RUG's Career Perspective Series, and the Research Training Certification Program at MQ.

Project One of the most profound challenges we all face is our deterioration with age - a process known as senescence. Individuals clearly senesce differently, in both the age they start to deteriorate and the rate of their decline. However, the underlying causes of these differences in senescence patterns remain poorly understood. Inbreeding increases the proportion of the genome that is identical by descent, reducing genetic heterozygosity and increasing the expression of deleterious recessive alleles, thus reducing fitness. Genomic markers provide power to estimate heterozygosity and test the prediction that inbreeding depression increases with age. Additionally, improved understanding of the cellular physiology of senescence will highlight potential mechanisms of senescence. This will help clarify why some individuals are less able to buffer against senescence, perhaps, for example, due to their genetic makeup or mitochondrial performance.

You will design your project to investigate inbreeding effects on senescence, and physiological senescence. In the Netherlands, you will have the long-term Seychelles warbler dataset available to address this question. Seychelles warblers are cooperative breeders and we have



detailed life-history data of over 2,000 birds, spanning more than 30 years. High variance in both senescence and inbreeding occurs in the population. Over 450 birds in our dataset are inbred, and inbreeding effects accumulation over life and impact strongly on survival. Potential research questions are how genome-wide heterozygosity affects senescence, and whether heterozygosity fitness correlations arise due to locus specific or genome-wide effects. In Australia, you will work on the cellular physiology of senescence using a captive population of long-tailed finches. In this captive population we have a good pedigree with known demography and use approaches to measure mitochondrial performance non invasively. This component will provide insight into potential underlying mechanisms of organismal senescence. The overall project will improve our understanding of how and why some individuals live longer, healthier lives, and provide important insights into ways of mitigating senescence.

References Bebbington K, Spurgin LG, Fairfield EA, Dugdale HL, Komdeur J, Burke T, Richardson DS (2016) Telomere length reveals cumulative individual and transgenerational inbreeding effects in a passerine bird. *Molecular Ecology*, 25, 2949i<sub>2</sub><sup>1</sup>“2960.

Hammers M, Kingma SA, Bebbington K, van de Crommenacker J, Spurgin LG, Richardson DS, Burke TA, Dugdale HL, Komdeur J (2015) Senescence in the wild: Insights from a long-term study on Seychelles warblers. *Experimental Gerontology*, 71, 69i<sub>2</sub><sup>1</sup>”79.

Hooper DM, Griffith SC, Price TD (2019) Sex chromosome inversions enforce

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## ULausanne 20 QuantitativeBiology

20 Fully funded PhD studentships in Quantitative Biology

The advent of large-throughput data is transforming life sciences into an increasingly quantitative discipline. The University of Lausanne (Switzerland) is at the forefront of this revolution, with quantitative research ramping up throughout the Faculty of Biology and Medicine, a

dedicated department of Computational Biology, and interdisciplinary units such as the Center for Integrative Genomics. UNIL also hosts the headquarters of the Swiss Institute of Bioinformatics, to which many quantitative research groups are affiliated, and closely collaborates with EPFL on the same campus. Ideally situated along the lake of Geneva, near Lausanne’s city center, UNIL brings together over 120 nationalities.

UNIL’s Faculty of Biology and Medicine has recently launched a doctoral program entitled “Quantitative Biology”. A wide range of research groups are recruiting PhD students, covering areas as diverse as Genetics, Cell biology, Metabolism, Computational biology, Oncology, Evolution, Microbiology, Imaging, Molecular biology, Neuroscience, Gene regulation, Radiobiology, Plant science, Ancient DNA, Population Genetics, Single-cell Genomics, Epi-lipidomics, Stem Cell Biology, Tissue Engineering and Biomaterials.

In 2021, hiring principal investigators include Francesca Amati, Claudia Bagni, Sven Bergmann, Christophe Dessimoz, Oscar Esteban, David Gfeller, Raphael Goltardo, Jerome Goudet, Emmanuella Guenova, Shukry James Habib, Laurent Keller, Zoltan Kutalik, Anna-Sapfo Malaspinas, Sophie Martin, Micah Murray, Alexandre Reymond, Tanja Schwander, Alessandro Villa, Claus Wedekind, Christian Widmann.

Job information

Expected start date: 01.03.2022 or to be agreed

Successful candidates will be offered one of two kinds of PhD student work contract, depending on the funding available to the hiring supervisor by the start of the contract:

- (1) Doctoral assistant on UNIL funds, at an activity rate of 85%. The initial contract is of one year but will be renewed up to 5 years.
- (2) Doctoral assistant on external funds, at an activity rate of 100%. The initial contract is of one year but will be renewed up to 4 years.

Please also note that in some cases, again depending on the hiring supervisor situation, contracts will be issued from the CHUV (University Hospital) or a different UNIL faculty.

Workplace: University of Lausanne (Dorigny, Bugnon, or Epalingesâ euro “depending on the supervisor)

Your qualifications

We are accepting applications from talented and enthusiastic candidates who are interested in a dynamic, well-supported lab at a top research institution. Candidates need to finish a Master’s degree in a relevant area before the start date of their doctoral studies.

We are looking for three main types of PhD students: \* Students with a life science degree, interested in working in an experimental lab, but with a high degree of motivation to learn the fundamentals of computational biology, and to develop quantitative skills to analyse data more effectively \* Students with a life science degree interested in working in a dry computational lab, keen to deepen their quantitative skills and broaden their horizon in terms of experimental and computational techniques \* Students with a non-biological background (e.g. computer science, maths, physics), who are highly motivated to transition to Life Sciences

A high level of written and spoken English proficiency is required since most scientific activities are conducted in English.

What the position offers you

You will develop your research project while working in a world competitive, interdisciplinary and highly collaborative environment.

The PhD program in Quantitative Biology provides opportunities for professional training and acquisition of highly transferable skills. This is complemented by a wide range of activities (retreats, symposia, student life).

The positions are fully funded. Salary and benefits are internationally highly competitive. Additional funding for consumables, computing, and to attend international conferences is available.

Your application

For your application to be considered, you need to fill in two forms:

The first form, at <https://career5.successfactors.eu/sfcareer/jobreqcareer?jobId=18082&company=universitdP>, requires the following informations: \* Personal details \* A cover letter. This can be very brief, since you should provide your motivation in the 2nd form below. \* A single PDF document containing: \* Your curriculum vitae (with extracurricular activities, internships, publications, conferences, awards, software contributions, etc.) \* Master's thesis summary \* The names and contact details of 2-3 referees.

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## ULB-VUB Brussels ProteinEvolution

### PhD POSITION IN BIOPHYSICAL PROTEIN EVOLUTION

Domains: Structural bioinformatics, evolution, protein function

Project: We offer a unique opportunity to explore the biophysical properties of proteins using an evolutionary perspective at the (IB)Â<sup>2</sup> Interuniversity Institute of Bioinformatics in Brussels (<http://ibsquare.be/>).

Whereas the prediction of how a protein folds has recently been essentially solved, the study of protein dynamics and of the ambiguous behavior of proteins that switch between different shape is becoming increasingly important, as such features of proteins play key roles in crucial cellular functions.

In this fundamental research project, with many potential industrial applications, the selected applicant will investigate the relationship between the sequence, structure and biophysical conservation of proteins for a range of (mostly micro)organisms that inhabit drastically different environments, using state-of-the-art statistical approaches to disentangle the footprint of common ancestry from the influence of the environment.

The PhD candidate will be based in Brussels at the Bio2Byte group of the VUB (<https://bio2byte.be/>), with expertise in the prediction of protein properties from their sequence, and at the EEG (Ecological & Evolutionary Genomics) group of ULB (<https://ebe.ulb.ac.be/ebe/Flot.html>), with expertise in genome assembly, comparative genomics and molecular systematics.

The project will be conducted in collaboration with Dr. Danny Ionescu, a specialist in microbial ecological genomics at the IGB (Leibniz-Institute of Freshwater Ecology and Inland Fisheries) in Berlin.

Requirements: We are looking for a candidate with a Master's Degree (MSc) in Sciences, with a strong background in biology and statistics and excellent computational skills, preferably in (structural) bioinformatics. Prior experience working with protein sequences on evolutionary issues will be an asset for the position. Candidates must have an excellent track record (e.g. publications or conference presentations) and be fluent

in English.

Practical information: The position is initially for one year, starting on 1st October or as soon as possible thereafter, with possibility to extend for three more years to complete a full PhD. The main work location will be the (IB)<sup>2</sup> Interuniversity Institute of Bioinformatics in Brussels (<http://ibsquare.be/>; VUB Etterbeek).

Applications and further information: For applying, please fill in the form at <https://bit.ly/biophysevo>. Each submitted application will be reviewed until a suitable candidate is found. Your application should include 1) a CV (including contact information for at least 2 reference persons familiar with your previous achievements), 2) the complete transcripts of records from your BSc and MSc, and 3) a detailed motivation letter. For questions regarding the position, please contact Wim.Vranken@vub.be and/or jflot@ulb.ac.be.

– Jean-François Flot Associate Professor Interuniversity Institute of Bioinformatics in Brussels - (IB)<sup>2</sup> & Evolutionary Biology & Ecology - C.P. 160/12 Université libre de Bruxelles (ULB) Avenue F.D. Roosevelt 50 B-1050 Brussels - Belgium <http://ebe.ulb.ac.be/ebe/Flot.html> Jean-François Flot <jflot@ulb.ac.be>

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## UMaine SmallMammalConservation

Funded graduate position

The Levesque Lab at UMaine is looking for a graduate student to join us for a PhD on small mammal energetics in Borneo. The research will take place in Sarawak, Malaysia in close collaboration with researchers at Universiti Malaysia Sarawak and will require extensive periods of fieldwork in the tropics. The student will also participate with outreach programs in collaboration with UMaine 4-H. For more details see here (<https://umaine.edu/news/blog/2021/-08/19/levesques-nsf-career-award-supports-study-of-small-mammal-thermoregulation-energy-use-in-changing-climate/>).

Position: PhD in either Biology (<https://sbe.umaine.edu/graduate/>) or Ecology and Environmental Sciences (<https://umaine.edu/ecologyandenvironmentalsciences/graduate-programs/>) starting in January 2022.

Funding: The position is funded for 3 years of research assistantships (full-time including summer) and will be supplemented by teaching assistantships. Funding in-

cludes tuition and fees, partial health insurance and a stipend.

Qualifications:

- MS in biology, zoology, physiology, ecology, or other relevant disciplines.
- The project will involve extensive periods of time overseas therefore the willingness to move and spend months of the year in the field is critical.
- A strong interest in the physiology and ecology of mammals.
- Experience with respirometry or other ecophysiological techniques, small mammal trapping/handling, and/or international research experience would be a plus but are not essential.

Students who have not had the opportunity to build these skills are encouraged to apply.

GRE scores not required! Non-traditional, first-generation, BIPOC, LGBTQIA2S+, and/or students with disabilities are encouraged to apply.

To Apply: Please send a CV and a 1pg cover letter outlining your background, interest in the position and how this opportunity will help you realize your future goals to [danielle.l.levesque@maine.edu](mailto:danielle.l.levesque@maine.edu) by Friday September 17th.

Danielle Levesque, PhD Assistant Professor of Mammalogy and Mammalian Health School of Biology & Ecology 321A Murray Hall, University of Maine Orono, ME 04469 Phone: +1 (207) 581-2511 Fax: +1 (207) 581-2537

Danielle Levesque <[danielle.l.levesque@maine.edu](mailto:danielle.l.levesque@maine.edu)>  
[danielle.l.levesque@maine.edu](mailto:danielle.l.levesque@maine.edu)

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## UMD-Smithsonian FunctionalMorphologyOfSpiderChelicerae

Dr. Hannah Wood (National Museum of Natural History, Smithsonian Institution - NMNH) and Dr. Jeff Shultz (University of Maryland, College Park - UMD) are seeking a PhD student. The PhD student will contribute to an NSF-funded project that examines the evolution of cheliceral form and function across spiders. This project uses several different methodologies, with the main goal of understanding cheliceral diversification: 1) gathering UCE sequence data and phylogenetic

analysis; 2) micro-Computed-Tomography scanning and 3D-morphometric analysis; 3) histological sectioning; 4) high-speed videography of cheliceral strikes; 5) comparative phylogenetic techniques. The PhD student will have freedom to develop their own projects, although ideally their project would align with the goals of the NSF-funded project, that of using phylogenetics and functional morphology to understand morphological evolution in spiders.

Applicants can come from a variety of backgrounds, but we are particularly interested in those with a strong interest in functional morphology, evolution, phylogenetics, and Arachnology. The doctoral degree and coursework will be based at UMD, but the PhD student will have freedom to divide their time as needed between the two institutions (UMD and NMNH - about a 45-50 minute metro ride between).

Financial support will be provided through research and teaching assistantships at UMD. The UMD stipend will be at least \$29K per year, and includes health coverage and tuition for a total compensation package that may exceed \$38K per year. Exceptional applicants may be nominated for additional fellowships.

To be considered, send an email to Hannah Wood (woodh@si.edu) and/or Jeff Shultz (jshultz@umd.edu) that includes the following attachments: 1) a cover letter expressing your interest, your qualifications for the position, and your future career goals, 2) your curriculum vitae, 3) an unofficial copy of your college transcripts, and 4) names and contact information of 2-3 professional references.

To receive full consideration, submit your letter and supporting materials by Oct. 15, 2021; however, we will consider candidates until the position is filled. Please note that the selected candidate will need to apply and be accepted to the UMD Dept of Entomology (applications are due on Dec. 1, 2021 for a start date of Fall 2022). If needed, the student can begin working earlier as a lab technician, starting as early as Jan 2022.

Please email Hannah Wood (woodh@si.edu) or Jeff Shultz (jshultz@umd.edu) with any questions or concerns about this position.

Hannah Wood Curator of Arachnida and Myriapoda Research Scientist Department of Entomology National Museum of Natural History Smithsonian Institution

“Wood, Hannah” <WoodH@si.edu>

## URhodeIsland PlantPhylogenomics

PhD or Masters Student position in Plant Phylogenomics / Bioinformatics

A graduate student position is available in the Schwartz Lab in the College of the Environment and Life Sciences at the University of Rhode Island starting in Fall 2022 to work on an NSF funded project studying evolution and biogeography in the Andes. The lab is focused on understanding evolutionary history using genomic datasets. We also develop methods and software for researchers interested in empirical questions. The student will be expected to develop and use computational tools to examine phylogenetic datasets for Andean plants, and collaborate with other researchers addressing morphological and biogeographical questions in these groups.

Required skills and expectations: \* B.S. or M.S. in Evolution or Bioinformatics or a related field (e.g. Biology) \* Background and interest in phylogenetics and evolution \* Demonstrated writing skill \* Commitment to participating in a collaborative and inclusive lab environment \* Prior research experience (e.g. summer internship, work in a research lab) \* Interest in computational research \* Interest in studying plants

Preferred skills: \* Experience with genetic sequence data including building phylogenies \* Experience coding in R, Python, or another language \* Experience working in an HPC environment

This position will be partly funded by an NSF grant. The student will also be expected to TA (for example Introductory Biology lab). Students from backgrounds that have been excluded from science due to ethnicity or race are particularly encouraged to apply. Questions are always welcome, especially if you are interested but not sure about the research or your experience. It is always best to ask.

Location: URI is located in the southern part of Rhode Island, approximately a 40-minute drive from Providence and a 10-minute drive to multiple beaches. The Schwartz Lab is housed on the main URI campus in Kingston in the Center for Biotechnology and the Life Sciences.

The student will be a part of the Biological and Environmental Sciences graduate program in the College of the Environment and Life Sciences, with a specialization in Evolutionary Biology ( <https://web.uri.edu/cels->

[gradprograms/bes/emb/](https://web.uri.edu/cels-gradprograms/bes/emb/)) or Cell and Molecular Biology (<https://web.uri.edu/cels-gradprograms/bes/cmb/>).

For more information please read about research in the lab (<https://schwartzlaburi.github.io/research.html>) and the expectations and responsibilities (<https://schwartzlaburi.github.io/positions.html>). Prior to applying to the graduate program please send your CV and a cover letter ([rsshwartz@uri.edu](mailto:rsshwartz@uri.edu)) outlining your research interest and how they might intersect with mine.

Rachel Schwartz, PhD Assistant Professor Department of Biological Sciences College of the Environment and Life Sciences The University of Rhode Island Kingston, RI 02881

Office: CBLS 377 Phone: 401-874-5404

Rachel Schwartz <[rsshwartz@uri.edu](mailto:rsshwartz@uri.edu)>

tional tissue samples for genomic analyses. The position will be based at the University of Salzburg, supervised by Robert Schabetsberger. Prolonged research visits will be included to perform molecular work together with collaborators Robert Jehle (University of Salford, UK) and Chrysa Gubili (Fisheries Research Institute, Greece), and to perform bioinformatic analyses together with Michael Matschiner (University of Oslo, Norway) and Julia Barth (University of Basel, Switzerland).

More detailed information about the position and how to apply can be found at <https://www.plus.ac.at/wp-content/uploads/2021/09/PhD-position-eels-submitted-1.pdf> The student is expected to start on 1 December 2021 (alternative start dates could be negotiated), and review of applications will begin on 15 October 2021.

Michael Matschiner <[michael.matschiner@nhm.uio.no](mailto:michael.matschiner@nhm.uio.no)>

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## USalzburg Eel phylogenomics migration

We are seeking a motivated Ph.D. student to work in an Austrian Science Fund project entitled: From Myth to Reason - Population structure and spawning area(s) of tropical eels in the southwestern Indian Ocean.

The project focuses on two aspects:

- (i) Whole genome sequencing data will be analysed to assess the population structure of Indian Ocean species of the genus *Anguilla* throughout their distribution ranges. Additionally, genomic data for population samples of all species of the genus *Anguilla* (16 species and 3 sub-species) will be analysed to investigate their phylogeny together with signals of interspecific hybridization.
- (ii) Endemic *Anguilla mossambica* will be tagged with satellite transmitters to study their marine migration routes from Madagascar, locate their spawning area (which they may share with one or more of co-occurring species), and assess the oceanographic conditions along the eels' migration path to identify landmarks that the eels may use to find their spawning area.

Using existing population samples, the Ph.D. student will study the evolutionary and biogeographic history of species differentiation and hybridization across all anguillid species with whole genome sequencing. In addition, the student will have the possibility to join fieldwork in Madagascar for tagging eels with pop-up satellite archival transmitters and the collection of addi-

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## UtahStateU PredictingEvolution

The Gompert lab in the Department of Biology at Utah State University (USU) is seeking a highly motivated and enthusiastic PhD student with interests in forecasting ecological and evolutionary processes from time-series data. Research in the lab addresses a range of fundamental questions in ecology and evolutionary biology. We are particularly interested in the ecological causes and evolutionary consequences of natural selection, the causes and consequences of genetic variation in the wild, the role of hybridization in evolution, and the nature and evolution of species boundaries and barriers to gene flow. This specific position is funded through a NSF LTREB award to Zach Gompert (and collaborator Matt Forister at the University of Nevada). A stipend will be provided via a mixture of teaching and research assistantships. Review of applicants will begin November 1, 2021. The start date for the PhD project is fall 2022.

Project Overview: The history of life on Earth has many periods of mass extinction, when many species cease to exist. These periods are usually studied through use of fossils. Although fossils have revealed a lot about extinction, they've been unable to solve the basic riddle of why some species go extinct and others seem unaffected. Humans are now witnessing a mass extinction event, which provides biologists an opportunity to study in real time how species differ in their responses to climate change and other stressors. Some may go extinct within

our lifetimes; others won't. This project builds on one of North America's longest-running studies of (butterfly) insect populations by continuing data collection at five sites in the Sierra Nevada Mountains of Northern California. Encompassing more than 150 species of butterflies, this NSF funded LTREB project will explore habitat use by both butterflies and caterpillars to better understand climate impacts on insect populations. Of particular interest is the role of extreme droughts, which are affecting the western United States with increasing frequency. Results from the project will inform our understanding of ongoing insect and pollinator declines.

**Specific Responsibilities:** We are looking for a PhD student interested in collaborating on the project. Specifically, the PhD student will use computational methods, including hierarchical Bayesian models and neural networks, to make predictions about future butterfly population demographics while accounting for uncertainty in future climate and possible effects of adaptive evolutionary change. The student will be tasked with maintaining a website making forecasts available to the public. Additional components of the PhD student's dissertation will be tailored to the student's interests and background. Possible projects could make connections to Gompert's funded work on contemporary evolution and fluctuating selection in *Lycaeides* butterflies, but this is not required. The student will have the opportunity to visit the field sites, but collecting the butterfly count data is not a key part of the student's project.

The successful candidate should have previous training in ecology, evolutionary biology, population genetics, applied math and statistics, or computational biology. Some proficiency with programming (e.g., moderate comfort with R, C, java, perl, or python) is desirable. Experience working with climate models or ecological forecasting would be an asset, but is not essential. Students with or without a Master's degree are encouraged to apply. We welcome and encourage enthusiastic and open-minded applicants from any nation, ethnicity, gender, sexual orientation or socioeconomic class. For more information about the Gompert lab, including a statement of mentoring philosophy and expectations, please visit the lab website at <https://gompertlab.com/>. USU is a public land-grant research university in Logan, Utah (USA). The Department of Biology and USU offer excellent opportunities for education, training, funding, and collaboration. Graduate students in the department have the option of pursuing a PhD in Biology or in the inter-departmental Ecology program. Located in the Rocky Mountains, the Logan area also offers exceptional opportunities for outdoor recreation.

Interested students should e-mail me

([zach.gompert@usu.edu](mailto:zach.gompert@usu.edu)) with the following:

1. A cover letter describing the student's background and training, goals and reasons for pursuing a PhD, and the specific reasons why this opportunity is of exceptional interest.
2. A CV, including contact information for three academic references.
3. A writing sample. This could be in the form of a published or draft manuscript, an undergraduate thesis, or some other substantial document that constitutes scientific writing.

Zachariah Gompert <[zach.gompert@usu.edu](mailto:zach.gompert@usu.edu)>

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## UTasmania PlantEvoBiol

A PhD scholarship (\$28,597/year, full time for 3.5 years) is available for a project with the Centre of Excellence for Plant Success in Nature and Agriculture at the University of Tasmania, focussing on the evolution of osmoregulation in plants.

The position is open to Australian and New Zealand candidates and to international candidates who are already located in Australia.

Applicants who hold a first-class Honours degree or equivalent qualifications and experience in molecular biology, plant physiology and/or genetics are encouraged to apply.

Full details are here:

<https://www.utas.edu.au/our-research/research-degrees/available-projects/science-technology-and-engineering/area/biological-sciences/evolution-of-osmoregulation-in-plants>

Interested students can apply via the link above and/or contact [Frances.Sussmilch@utas.edu.au](mailto:Frances.Sussmilch@utas.edu.au).

Frances Sussmilch <[frances.sussmilch@utas.edu.au](mailto:frances.sussmilch@utas.edu.au)>

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## UToronto Mississauga 2 NeuroEvolution

The Senatore Lab at the University of Toronto Mississauga is recruiting 2 highly motivated and enthusiastic PhD students to study the evolution of ion channel and neurotransmitter receptor function in the nervous system. The students will integrate a range of exciting

techniques including genome bioinformatics, protein biochemistry, fluorescence microscopy, immunohistochemistry, and patch-clamp/sharp electrode electrophysiology.

The position is open to Canadians, permanent residents of Canada, and international applicants who have successfully defended their Master's degree. Applicants with particularly strong academic records and experience in wet-lab research will be considered for direct entry into the PhD program. Individuals who identify with underrepresented groups in the fields of science, technology, engineering, and mathematics (STEM) are especially encouraged to apply. Preference will be given to applicants who have demonstrated excellence in academics, research, and scientific communication. Experience conducting research with fruit flies (*Drosophila melanogaster*) is also beneficial.

The Senatore lab is in the William G. Davis Building at the University of Toronto Mississauga. We are part of the Department of Cell and Systems Biology, comprised of a vibrant, diverse, and energetic group of researchers across all three University of Toronto campuses (St. George, Mississauga, and Scarborough). The University of Toronto Mississauga campus backs onto the Credit River, with quick access to beautiful hiking trails along the river. The campus is 33 kilometers west of the University's St. George campus in downtown Toronto, with easy access via university shuttle buses and public transportation.

Students wishing to apply should email their CV, a one-page statement of research interests, and an unofficial undergraduate transcript to

adriano.senatore@utoronto.ca.

Best regards,

Adriano Senatore

<https://senatorelab.com/>    <https://csb.utoronto.ca/-faculty/adriano-senatore/>  
<https://csb.utoronto.ca/-graduate-studies/prospective-students/csb-graduate-program/>    Adriano    Senatore  
<adriano.senatore@utoronto.ca>

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## UValencia *Drosophila* Sexual Conflict

PhD Student- The evolution of sexual conflict We offer a fully funded 3+1 yr PhD position starting ca. July-August 2022; meaning that, if the PhD is finished in less than 4 years, the student can transfer to a junior post doc position for the remaining time. We are looking for a PhD student interested in studying the evolutionary factors modulating the intensity of male-male competition and sexual conflict, and its consequences in terms of population viability. Strong sexual selection can improve population viability and evolvability through processes such as genic capture. However, strong sexual selection will also often give rise to sexual conflict and female harm, which does not only tend to deviate females from their evolutionary optima, but can drastically affect population viability, leading to a “reproductive tragedy of the commons”. We are interested in understanding what factors modulate the evolution of male-male competition, female harm levels, and sexual conflict at large, and how this all feeds back into population viability and evolvability.

We work mainly with (mostly wild) *Drosophila melanogaster*, which typically involves behavioural experiments in the lab, experimental evolution, some field-work across Europe and the USA/Australia, and potentially some genomics/proteomics. This PhD position may also involve some mathematical modelling. We are looking for a motivated, enthusiastic, hard-working candidate with some background (and a strong interest) in sexual selection, and evolutionary biology and animal behaviour at large. The student will be supervised by Dr. Pau Carazo and based at the Behaviour and Evolution group of the Ethology Lab, at the Cavanilles Institute of Biodiversity and Evolutionary Biology (University of Valencia, Spain). For information about our group visit our website (<http://paucarazo.com>). Mathematical modelling will be supervised by Dr. Gonçalo Faria (University of East Anglia). For further information and expressions of interest, please contact Pau Carazo (University of Valencia; [pau.carazo@uv.es](mailto:pau.carazo@uv.es)). The deadline for applications for this position is the 15th of October.

Pau Carazo, PhD Cavanilles Institute of Biodiversity and Evolutionary Biology University of Valencia Tel: +34 963544051 <http://paucarazo.com> Pau Carazo <[pau.carazo@uv.es](mailto:pau.carazo@uv.es)>

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## VU Amsterdam 2 EvolutionCamouflage

For the NWO-funded project CAMOSENSE we are searching for two PhD students who will focus on the importance of camouflage in predator-prey interactions. In the project we aim to understand how a whole community of moths has evolved visual and acoustic traits that provides camouflage function against birds during the day and bats during the night. The work involves collecting and phenotyping a large set of different moth species found throughout the Netherlands, quantifying different sensory environments and running behavioral experiments with bats and birds.

Your duties

\* execute the scientific research as detailed in the project description \* publish results in scientific journals as well as in a thesis \* assist in undergraduate courses given within the Department of Ecological Science \* adhere to the PhD educational program as prescribed by the Department

### REQUIREMENTS

\* a master's degree, preferably with a strong interest in ecology, evolution, or behavior and affinity with acous-

tics or image analysis \* experience with field work, behavioral studies, and/or sensory ecology \* excellent ability to communicate in both written and spoken English \* good social skills, ability to work independently and strong scientific motivation;

WHAT ARE WE OFFERING? A challenging position in a socially involved organization. On full-time basis the remuneration amounts to a minimum gross monthly salary of euro 2,395 (PhD) and a maximum euro 3,061 (PhD), depending on your education and experience. The job profile: is based on the university job ranking system and is vacant for at least 0.8 FTE. The initial employment contract will affect a period of 1 year, with the possibility of an extension of 3 (at 1.0 fte) or 4 years (at 0.8 fte).

Are you interested in this position? Please only apply via the application button < <https://werkenbij.vu.nl/-apply/two-phd-position-in-ecology-and-evolution/-4wrcbp/en> > and upload your curriculum vitae and cover letter until 07/10/2021, 09:00. The job interviews are planned for mid October, when possible please take this into account when applying for the position.

Vacancy questions If you have any questions regarding this vacancy or the project description, you may contact:

Name: Wouter Halfwerk Position: Assistent Professor E-mail: [w.h.halfwerk@vu.nl](mailto:w.h.halfwerk@vu.nl) Telephone: +31(0)20-5987046

More info can be found here: <https://werkenbij.vu.nl/-ad/two-phd-position-in-ecology-and-evolution/4wrcbp> "Halfwerk, W.H." <[w.h.halfwerk@vu.nl](mailto:w.h.halfwerk@vu.nl)>

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## ArizonaStateU BiodiversityCommunityManager

The Arizona State University (ASU) School of Life Sciences and Biodiversity Knowledge Integration Center (BioKIC) are seeking a Biodiversity Data Portal Community Support Manager [formal HR title: Web User Experience Specialist] for the iDigBio Phase 3 project. iDigBio, the Integrated Digitized Biocollections, is the national resource supporting the National Science Foundation's Infrastructure Capacity for Biological Research (Capacity): Biological Collections and related programs. The iDigBio Phase 3 project will extend from 2021-2026 to advance the digitization, integration, and broadly impacting use of biocollections data for occurrences held in more than 1,600 collections. As part of iDigBio Phase 3, we will provide a Symbiota Support Hub serving all Thematic Collections Networks that use the Symbiota software platform to manage the digitization process and publication of data and images through these portals. The Hub will provide daily Symbiota help desk support to hundreds of collections and their users; implement novel Symbiota tools being developed by different network communities; promote cross-network collaboration and training; host and manage networks and their associated images; and offer an entry into digitization and data publication for new iDigBio collections.

The position requires a strong familiarity with biocollections, biodiversity data science standards (e.g., Darwin Core) and best practices as advocated and implemented by iDigBio; and with web-based biodiversity data publication and aggregation platforms such as Symbiota or similar software applications. Experience in comprehensive technical and social capacitation support and management of biodiversity data portal communities is

highly sought. Excellent skills in handling direct user communications, social media, as well as web-based software usability information and tutorials are critical. A wide range of applicant profiles will be considered. Candidates with diverse backgrounds are encouraged to apply even if they cannot immediately fulfill all desired criteria.

The Community Support Manager can be located in Tempe, Arizona, or work remotely.

For more information and to apply: 1. Go to: <https://cfo.asu.edu/applicant> 2. Select option: "Non-ASU Employees (Read More)" 3. Search for (job code): 71938BR

Inquiries to [nico.franz@asu.edu](mailto:nico.franz@asu.edu) are encouraged.

Nico Franz <[nico.franz@asu.edu](mailto:nico.franz@asu.edu)>

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## ArizonaStateU BiodiversityDataSystAdmin

Apply and further information: <https://apply.interfolio.com/93249> Deadline (rolling basis): October 04, 2021 Inquiries: [nico.franz@asu.edu](mailto:nico.franz@asu.edu)

Assistant Research Professional: Biodiversity Data Systems Administrator and Programmer

The Arizona State University School of Life Sciences and Biodiversity Knowledge Integration Center (BioKIC) are seeking an Assistant Research Professional who will serve as the Biodiversity Data Systems Administrator and Programmer for the iDigBio Phase 3 project. iDigBio, the Integrated Digitized Biocollections, supports the National Science Foundation's Advancing Digitization of Biodiversity Collections and related programs. The iDigBio Phase 3 project will extend from 2021-2026 to facilitate the digitization, use, and impact

of biocollections data for more than 1,600 collections.

BioKIC will provide a Symbiota Support Hub serving all Thematic Collections Networks and portals that make use of the Symbiota software platform. The Hub will provide daily Symbiota support to hundreds of collections; implement novel Symbiota tools; promote cross-network collaborations and training; host and manage data networks and their associated images; and offer an entry into digitization and data publication for new iDigBio collections.

Prospective candidates with outside-of-domain backgrounds in systems administration and programming, are nevertheless strongly encouraged to apply. Our team is dynamic and communicative, with domain-specific strengths that match up well with members who have more generalized IT infrastructure management skills. This a full-time, academic-year (9 month), benefits eligible position allowing candidates to make themselves available for additional summer salary through other funded projects. Experience or a strong interest in developing innovative biodiversity informatics software and services, are highly sought but not required.

The Assistant Research Professional can be located in Tempe, Arizona, or work remotely.

nico.franz@asu.edu

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## ArizonaStateU ProgManager EvolutionaryCellBiology

Program Manager 71244BR Campus: Tempe Program Manager

### Job Description

The Biodesign Center for Mechanisms of Evolution (CME) is seeking a motivated program manager to join a groundbreaking team as part of the Biological Integration Institute (BII), a multi-investigator, NSF-funded grant on the mechanisms of cellular evolution embedded within the Biodesign Institute at Arizona State University. This individual will perform work of considerable difficulty in coordinating and directing activities of the BII, and independently ensure that the goals and objectives of the program are accomplished in accordance with priorities, time limitations, funding limitations or other specifications.

In this position, you will work closely and creatively with the CME, BII, and Biodesign Administration to

manage priorities of the program involving three multifaceted projects, to deliver a menu of planned activities that broadens the reach of the BII, including: an annual workshop/mini-symposium; an interuniversity research-exchange program; a web-based collection and a repository of resources. You will also coordinate outreach with community colleges, and manage weekly seminar and journal-club series.

You may have contact with administrative offices requiring the use of business vocabulary, tact, discretion, and judgment. The ideal candidate must also work well independently in a fast-paced, flexible environment, provide a high level of customer service to both the university and external communities, be accountable for specific outcomes and make strong contributions both as an individual and as a team player.

Department Name Biodesign ME

VP Code KNOWLEDGE ENTERPRISE DEV

Grant Funded Position This is a grant funded position. Continuation is contingent on future grant funding.

Close Date Sep 29, 2021

### Essential Duties

Facilitates the delivery of high impact training materials, coordinates programmatic details and delivery of workshops, exchange program, meetings and conferences with program/project participants; administers logistics, travel, scheduling and target audience communications. Develops, monitors, and coordinates daily operations and program/project activities. Oversees the preparation of project materials and key deliverables. Oversees administrative budget activities; establishes expenditure controls and recommends the allocation of resources within the limitations of the budget. Organizes and manages activities to support program KPI's, including: weekly journal club, presentations and seminar series, annual symposium; assists with student exchange program; and aids in educational outreach of Center. Directs the recruitment of local participants within the region utilizing the most appropriate promotional and marketing methods. Coordinates, develops, and implements the recommendations from annual program evaluations. Establishes and maintains liaison with regional, state, and national organizations involved in the implementation of program. Acts as a primary liaison with current funding source. Performs other duties and special projects as assigned that support the strategic goals of the Institute.

Minimum Qualifications Bachelor's degree in a related field AND five years administrative/coordination experience; OR, Master's degree in field appropriate

to area of assignment AND three years administrative/coordination experience; OR Any equivalent combination of experience and/or education from which comparable knowledge, skills and abilities have been achieved.

**Desired Qualifications** Experience in project management. Evidence of effective verbal and written communication skills, attention to detail, critical thinking skills, customer service skills, and working in a fast-paced environment with diverse populations. Experience in developing and maintaining cooperative working relationships with others. Demonstrated knowledge of Microsoft Office Applications (Excel, Word, PowerPoint, Outlook, SharePoint) and managing web-based materials. Demonstrated knowledge of basic project management and ability to maintain accurate project records and compile special reports. Experience in planning, analyzing and coordinating activities and establishing priorities. Experience in problem-solving and decision making; evidence of organizational skills and flexibility; proactively anticipating requirements and potential problems.

**Working Environment** Activities are primarily performed in a regular, climate-controlled office setting subject to extended periods of sitting, standing, walking. Visual acuity and manual dexterity associated with daily use of desktop computer. Bending, stooping, reaching, and lifting up to 20 pounds. Ability to clearly communicate to perform essential duties. Regular review of completed tasks.

**Department Statement** For the sixth year in a row, ASU has been named the most innovative school in the nation, recognizing the university's culture of groundbreaking

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

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## BII Evolution Center Program Coordinator

Program Manager 71244BR Campus: Tempe Program Manager

Job Description

The Biodesign Center for Mechanisms of Evolution

(CME) is seeking a motivated program manager to join a groundbreaking team as part of the Biological Integration Institute (BII), a multi-investigator, NSF-funded grant on the mechanisms of cellular evolution embedded within the Biodesign Institute at Arizona State University. This individual will perform work of considerable difficulty in coordinating and directing activities of the BII, and independently ensure that the goals and objectives of the program are accomplished in accordance with priorities, time limitations, funding limitations or other specifications.

In this position, you will work closely and creatively with the CME, BII, and Biodesign Administration to manage priorities of the program involving three multifaceted projects, to deliver a menu of planned activities that broadens the reach of the BII, including: an annual workshop/mini-symposium; an interuniversity research-exchange program; a web-based collection and a repository of resources. You will also coordinate outreach with community colleges, and manage weekly seminar and journal-club series.

You may have contact with administrative offices requiring the use of business vocabulary, tact, discretion, and judgment. The ideal candidate must also work well independently in a fast-paced, flexible environment, provide a high level of customer service to both the university and external communities, be accountable for specific outcomes and make strong contributions both as an individual and as a team player.

Department Name Biodesign ME

VP Code KNOWLEDGE ENTERPRISE DEV

Grant Funded Position This is a grant funded position. Continuation is contingent on future grant funding.

Close Date August 22nd, 2021

Essential Duties

Facilitates the delivery of high impact training materials, coordinates programmatic details and delivery of workshops, exchange program, meetings and conferences with program/project participants; administers logistics, travel, scheduling and target audience communications. Develops, monitors, and coordinates daily operations and program/project activities. Oversees the preparation of project materials and key deliverables. Oversees administrative budget activities; establishes expenditure controls and recommends the allocation of resources within the limitations of the budget. Organizes and manages activities to support program KPI's, including: weekly journal club, presentations and seminar series, annual symposium; assists with student exchange program; and aids in educational outreach of Center. Directs

the recruitment of local participants within the region utilizing the most appropriate promotional and marketing methods. Coordinates, develops, and implements the recommendations from annual program evaluations. Establishes and maintains liaison with regional, state, and national organizations involved in the implementation of program. Acts as a primary liaison with current funding source. Performs other duties and special projects as assigned that support the strategic goals of the Institute.

**Minimum Qualifications** Bachelor's degree in a related field AND five years administrative/coordination experience; OR, Master's degree in field appropriate to area of assignment AND three years administrative/coordination experience; OR Any equivalent combination of experience and/or education from which comparable knowledge, skills and abilities have been achieved.

**Desired Qualifications** Experience in project management. Evidence of effective verbal and written communication skills, attention to detail, critical thinking skills, customer service skills, and working in a fast-paced environment with diverse populations. Experience in developing and maintaining cooperative working relationships with others. Demonstrated knowledge of Microsoft Office Applications (Excel, Word, PowerPoint, Outlook, SharePoint) and managing web-based materials. Demonstrated knowledge of basic project management and ability to maintain accurate project records and compile special reports. Experience in planning, analyzing and coordinating activities and establishing priorities. Experience in problem-solving and decision making; evidence of organizational skills and flexibility; proactively anticipating requirements and potential problems.

**Working Environment** Activities are primarily performed in a regular, climate-controlled office setting subject to extended periods of sitting, standing, walking. Visual acuity and manual dexterity associated with daily use of desktop computer. Bending, stooping, reaching, and lifting up to 20 pounds. Ability to clearly communicate to perform essential duties. Regular review of completed tasks.

**Department Statement** For the sixth year in a row, ASU has been named the most innovative school in the nation, recognizing the university's culture of groundbreaking

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

## BOKU Vienna Forest Pathologist

Job: BOKU Vienna, Forest Pathologist

The University of Natural Resources and Life Sciences Vienna, BOKU, Department of Forest and Soil Sciences, Institute of Forest Entomology, Forest Pathology and Forest Protection, is currently seeking a Postdoctoral Research Associate.

Extent of employment: 40 hours per week

Duration of employment: 6 years, plus the potential option of a permanent position after this period Gross monthly salary and pay grade in terms of collective agreement for Austrian university staff (payable 14 times per year): B1 lit. b, euro 3.945,90

The successful applicant works predominantly in the working group 'forest pathology' of the institute. The research focus depends on current projects at the institute, collaborative opportunities between staff members as well as the expertise and interests of the appointed candidate. Completion of postdoctoral lecturer qualification ('Habilitation') within the employment period will be encouraged.

**Responsibilities:** - Independent research and publishing in the fields of forest pathology and/or forest mycology

- Teaching in forest pathology, forest protection, mycology and/or ecology in Bachelor and Master programs at BOKU

- Co-supervision of Bachelor, Master and PhD theses

- Acquisition, execution and management of third-party funded projects

- Administrative tasks at the institute

- Engagement in the academic self-administration and in committees of the Department of Forest and Soil Sciences and/or the University of Natural Resources and Life Sciences, Vienna

**Required skills and qualifications:** - Doctoral/PhD degree - Diploma/Master degree in Biology, Forest, Agricultural or Plant Sciences, Plant Health and Plant Protection or other equivalent university degree

- Excellent expertise and research experience in the fields of Forest/Plant Pathology, Mycology, Plant Sciences, and/or Molecular Ecology (applied in the aforementioned

tioned fields of research)

Desirable skills and qualifications: - Scientific publications in the above-mentioned fields (preferentially connected to forests)

- Record of third-party funded projects
- Experience in academic teaching and supervision of student theses
- Know-how, methodological competence and laboratory experience in molecular ecology
- Experience in conducting laboratory and field studies
- Profound knowledge in statistics, expertise in data analysis and experience with appropriate software programs
- Knowledge in related disciplines (e.g. forest/plant protection, forest entomology, silviculture, ecology)
- Experience in knowledge transfer (oral and written) to various target audiences
- Excellent language skills in German and English (oral and written); German can also be learnt after starting the job
- National and international scientific mobility
- National and international collaborations
- High capability to conduct scientific work independently, goal-oriented and timely
- Excellent communication and cooperation skills to work in a team
- Driving license

Applications can be submitted until: 3rd of October 2021

The University of Natural Resources and Life Sciences Vienna seeks to increase the number of its female faculty and staff members. Therefore, qualified women are strongly encouraged to apply. In case of equal qualification, female candidates will be given preference unless reasons specific to an individual male candidate tilt the balance in his favour. People with disabilities and appropriate qualifications are specifically encouraged to apply.

Please send your job application incl. motivation letter, CV, list of publications (in SCI-listed / non SCI-listed journals), congress contributions, third-party projects, teaching and supervision activities, short draft concept of planned research activities as part of the position (max. 3 A4-pages), to the Personnel Department, University of Natural Resources and Life Sciences, Peter-Jordan-Straße 70, 1190 Vienna; E-Mail: kerstin.buchmueller@boku.ac.at. (Reference code: 172)

For more information about this position, please contact: Univ.Prof. Dr. Thomas Kirisits (+43-1-47654-91611, E-Mail: thomas.kirisits@boku.ac.at).

More information about BOKU, the Department of Forest and Soil Sciences and the Institute of Forest Entomology, Forest Pathology and Forest Protection can be found on the following websites: [www.wabo.oku.ac.at](http://www.wabo.oku.ac.at) and [www.wabo.boku.ac.at/-iff](http://www.wabo.boku.ac.at/-iff) . [https://boku.ac.at/fileadmin/data/H01000/-mitteilungsblatt-jobs/2021/KZ172\\_mDe.pdf](https://boku.ac.at/fileadmin/data/H01000/-mitteilungsblatt-jobs/2021/KZ172_mDe.pdf) Martin Schebeck <martin.schebeck@boku.ac.at>

## BostonU EvolutionaryBiology

The Boston University Department of Biology invites applications for a tenure-track Assistant Professor position in Evolutionary Biology starting in Fall 2022. Applications are welcome from candidates working in all areas of evolutionary biology. However, candidates using integrative approaches to address fundamental questions about pattern and process at multiple levels of biological organization are particularly encouraged to apply. Top candidates will also have a demonstrated commitment to equity, diversity, and inclusion, exhibit strong interests in collaborative science across disciplines, and have interests in inclusive pedagogy.

The successful candidate will create an innovative, integrative, and independent research program complementing those of current Biology faculty and strengthening our expertise in evolution. Potential research areas include but are not limited to: integrative research investigating evolutionary patterns and processes at any scale, phylogenomics, comparative evolutionary genomics, evo-devo, population genomics, the application of evolutionary genomics to global change biology, physiology, or behavior, and/or evolutionary theory.

Responsibilities include growing a vibrant research program with extramural funding, teaching at the graduate and/or undergraduate levels, and participating in graduate training. Boston University expects excellence in teaching and in research, and is committed to building a culturally, racially, and ethnically diverse scholarly community. The successful candidate will join a strong Ecology, Behavior and Evolutionary Biology research community at Boston University that also benefits from close affiliations with programs in Biogeoscience, Marine Science, Bioinformatics, Computing & Data Sciences and the School of Medicine. The successful candidate

will be offered newly renovated laboratory facilities as well as a competitive salary and start-up package.

Review of applications will begin 1 November 2021. Please use AcademicJobsOnline (<https://academicjobsonline.org/ajo/jobs/19531>) to submit a cover letter, curriculum vitae, a summary of research interests and plans, statements addressing teaching interests and diversity, and three representative reprints, and arrange for three letters of reference to be submitted through the same website. In the diversity statement, applicants should provide evidence of a commitment to fostering diversity, equity, inclusive excellence, and evidence of participation in the creation of inclusive environments in their department/workplace. Inquiries can be addressed to Sean Mullen ([smullen@bu.edu](mailto:smullen@bu.edu)), Chair, Evolutionary Biology Search Committee. Please visit the following website for information about the Biology Department (<http://www.bu.edu/biology/>).

In a continuing effort to enrich its academic environment and provide equal educational and employment opportunities, Boston University actively encourages applications from members of all groups underrepresented in higher education. Boston University is an AAU institution with a rich tradition of inclusion and social justice. We are proud to be the first American university to award a Ph.D. to a woman, and we continue that tradition of educating a diverse and talented student body. We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law. We are a VEVRAA Federal Contractor.

“Mullen, Sean P” <[smullen@bu.edu](mailto:smullen@bu.edu)>

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## BoyceThompsonInst NY Bioinformatics

**\*Summary\*** A Research Associate position with project management duties is open in the Mueller lab at the BTI in the field of bioinformatics, with a focus on databases.

**\*Lab overview\***The Mueller lab at the Boyce Thompson Institute ( <https://btiscience.org/>), which maintains several advanced databases, including the Solgenomics (<https://solgenomics.net/>), Cassavabase ( <https://cassavabase.org/>) and Citrusgreening.org ( <https://citrusgreening.org/>), has an open position for

a Research Associate in the field of bioinformatics, genomic and breeding databases,omics analysis, and genome sequencing and annotation. The genomics databases (e.g. <https://citrusgreening.org/> and <https://agrivectors.org/>) contain genomics, marker, phenotype and transcriptomics information and also comprise genome browsers, an expression atlas, and a pathway database. The main goal of the project is to support the research community in the search for treatments for the citrusgreening disease as well as other diseases.

**\*Skills\*** Major responsibilities will include leading genomics and transcriptomics analysis, genome annotation, code development and maintenance of genomics databases and websites. Proficiency in Perl, BioPerl, shell scripting , JavaScript, jQuery and a good working knowledge of Linux (Debian), git, PostgreSQL, ontologies and web servers (Catalyst, apache2, nginx) is desired. Experience with genome and transcriptome assembly, manual gene annotation using Apollo and mentoring undergraduate and graduate students will be a plus.

**\*Essential Job Functions\***

- Develop an increasingly independent research program in the context of the lab - Interact closely with collaborators for Citrusgreening HLB therapy, ACP genome annotation and AgriVectors projects and the respective research communities - Conduct and document research; interpret results and design new lines of bioinformatics analysis and potential experimental inquiry - Author publications and presentations - Contribute to securing extramural funding for the laboratory’s research program - Participate and present in group meetings, institute seminars, national and international research conferences

**\*Education\*** Doctoral degree (Ph.D.) or equivalent in a related scientific field. A background in programming, databases and computational biology with strong interests in plant and insect/ vector biology is desired.

**\*Experience and Knowledge\***3-5 years of relevant experience, generally as a Postdoctoral Scientist. Ability to work independently.

**\*Supervisory Responsibilities\***Supervision and mentoring of undergraduate student workers, graduate students, and/or research assistants as required

**\*Communication Skills\*** Effective written and verbal communication and interpersonal skills required. Ability to maintain accurate and thorough documentation. Ability to draft manuscripts and develop presentation materials. Ability to write protocols for bioinformatics analysis. Ability to present information to groups internal and external to the Institute.

\*Travel\* Occasional travel to off-site meetings or conferences. Occasional fieldwork may be required.

\*Application: <http://bti.hrmdirect.com/employment/job-opening.php?req=1765948&&#job> < <http://bti.hrmdirect.com/employment/job-opening.php?req=1765948&&#job> >\*

Questions? Let me know!

Cheers, Surya

—

Surya Saha Sol Genomics Network Boyce Thompson Institute, Ithaca, NY, USA <https://citrusgreening.org/> <https://orcid.org/0000-0002-1160-1413> <http://www.linkedin.com/in/suryasaha> <https://twitter.com/SahaSurya> Surya Saha <ss2489@cornell.edu>

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## CarnegieMNH AvianCollectionManager

I am excited to announce that we are looking for a Collection Manager in the Section of Birds at Carnegie Museum of Natural History.

The job would be ideal for an evolutionary biologist interested in doing independent research. The full details of the job can be found here: <https://us60.dayforcehcm.com/CandidatePortal/en-US/car/Posting/View/3542> Below is a brief description. The review process starts October 3, 2021.

Collection Manager for the Section of Birds is responsible for the physical care, maintenance, and preservation of the bird collection, and to maintain and improve specimen records and databases. This position is responsible for incoming and outgoing loans, overseeing the preparation and integration of new specimens, and facilitating the use of the collection by researchers and other visitors. The Collection Manager will also train and supervise other personnel, volunteers, and work study students in day-to-day tasks, including georeferencing, physical organization of specimens, and collection-based research projects. Requests for loans and data must be handled in a timely manner with appropriate documentation. This position will support the needs of CMNH exhibitions, education programming, and marketing.

Other responsibilities may include participating in identifying funding opportunities and working closely with the curator in obtaining funding. Additional internal and external service may be included as part of an annual plan.

Participation in professional development activities to further knowledge of collection stewardship is expected. A desire to conduct research up to or less than 10% is encouraged, but not required, and can be negotiated at the time of hiring. Collection Manager of Birds will contribute substantially to strategic development and the execution of the long-term collections plan.

Chase Mendenhall <mendenhallchase@gmail.com>

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## CDC Atlanta BacterialBioinformatics

The CDC Foundation is currently recruiting a bioinformatician to work with the CDC's Bacterial Meningitis Laboratory to characterize the genomic diversity of meningitis pathogens.

[https://workforcenow.adp.com/mascsr/default/mdf/recruitment/recruitment.html?cid=-014dfa20-d261-4f83-8d77-5edb4e15f0f8&ccId=-19000101\\_000001&jobId=397374&lang=en\\_US&source=CC4](https://workforcenow.adp.com/mascsr/default/mdf/recruitment/recruitment.html?cid=-014dfa20-d261-4f83-8d77-5edb4e15f0f8&ccId=-19000101_000001&jobId=397374&lang=en_US&source=CC4)

Best wishes,

Adam Retchless

(Bioinformatician at CDC's Respiratory Virus Genomics laboratory)

p.s. The CDC is continuing to hire bioinformaticians in several programs, and additional alerts for more senior positions may be received by registering with the USA Jobs website. (<https://www.usajobs.gov/>)

adam@retchless.us

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## ClemsonU Bioinformatician

Clemson University Center for Human Genetics Bioinformatician

The Clemson University Center for Human Genetics and the Greenwood Genetic Center have been awarded a five year Phase I Center of Biomedical Research Excellence (COBRE) in Human Genetics grant to understand the genetic, genomic, and epigenetic mechanisms by which

molecular genetic variation affects transcriptional and other molecular networks in health and disease. The Research Core of the COBRE in Human Genetics is seeking a Bioinformatician to support the bioinformatics research of Research and Pilot Project Leaders and their laboratories. The ideal candidate will have a Ph.D. degree with a record of productivity and expertise in analysis of data from high-throughput DNA and RNA sequencing experiments, population genomics, and related areas. The position requires excellent interpersonal, organizational and communication skills.

Please apply for Job ID 105803 at: [https://jobs.clemson.edu/psc/ps/JOBS/EXT/c/-HRS\\_HRAM\\_FL.HRS.CG\\_SEARCH\\_FL.GBL?Page=-HRS\\_APP\\_SCHJOB\\_FL&Action=U](https://jobs.clemson.edu/psc/ps/JOBS/EXT/c/-HRS_HRAM_FL.HRS.CG_SEARCH_FL.GBL?Page=-HRS_APP_SCHJOB_FL&Action=U) Applications should include a cover letter explaining the qualifications for this position and the names of three references. The position is available immediately. The salary is competitive and commensurate with credentials and experience. Clemson University is an equal opportunity employer.

Please direct inquiries to Dr. Trudy F. C. Mackay, Self Family Endowed Professor and Director of the Center for Human Genetics, Clemson University, Self Regional Hall, 114 Gregor Mendel Circle, Greenwood, SC 29646 (tmackay@clemson.edu).

TRUDY F. C. MACKAY, PhD, FRS  
 SELF FAMILY ENDOWED CHAIR OF HUMAN GENETICS  
 DIRECTOR, CENTER FOR HUMAN GENETICS  
 PROFESSOR OF GENETICS AND BIOCHEMISTRY  
 Center for Human Genetics  
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 110 Self Regional Hall  
 114 Gregor Mendel Circle  
 Greenwood, SC 29646  
 w 864-889-0522  
 c 919-604-6531  
 tmackay@clemson.edu  
 Trudy Frances Charlene Mackay  
 <tmackay@clemson.edu>

## ClemsonU HumanGenetics

Clemson University Assistant Professor in Human Genetics

Clemson University invites applications for a tenure-track Assistant Professor as part of a Cluster Hire at the Center for Human Genetics, with an expected start date of August 2022. Clemson University offers competitive salaries, benefits and start-up funds.

The successful applicant will have an accomplished research record at the forefront of human genetics/genomics. Applicants whose research combines experimental laboratory work and computational approaches are especially desirable. Areas of special interest are the mechanisms by which variation in epigenetic modification, gene regulatory networks, chromatin conformation and nuclear architecture affect variation in human health and disease. However, all areas with the potential to significantly advance the field of human genetics will be considered.

The Center for Human Genetics (<https://scienceweb.clemson.edu/chg/>) is housed in Self Regional Hall, a 17,000-square-foot building located in Greenwood, South Carolina on the Greenwood Genetic Center Partnership Campus. The Center for Human Genetics provides a vibrant interactive research environment with state-of-the-art genomic and computational resources, and is ideally configured for collaborative research. The successful applicant will be part of a collaborative and interdisciplinary environment that includes the research, diagnostic and clinical geneticists at the Greenwood Genetic Center, the genetics, genomics, statistics and bioinformatics faculty at Clemson University, the USC School of Medicine in Greenville and the Prisma Health System. The home department at Clemson will be determined by the fit of the applicant's research interests with the mission of one of the departments in the College of Science ([www.clemson.edu/science](http://www.clemson.edu/science)), including the Department of Genetics and Biochemistry ([www.clemson.edu/science/departments/genetics-biochemistry/index.html](http://www.clemson.edu/science/departments/genetics-biochemistry/index.html)), the School of Mathematical and Statistical Sciences ([www.clemson.edu/science/departments/mathematical-sciences/index.html](http://www.clemson.edu/science/departments/mathematical-sciences/index.html)) and the Department of Biological Sciences ([www.clemson.edu/science/departments/biosci/index.html](http://www.clemson.edu/science/departments/biosci/index.html)).



Clemson University is committed to building a diverse and inclusive community of faculty scholars dedicated to working and teaching in a multi-cultural environment (<http://www.clemson.edu/inclusion/>). We encourage applications from women, minorities and individuals with a commitment to mentoring colleagues and students from demographic groups underrepresented in the sciences. We are also supportive of the needs of dual-career couples.

Successful candidates must hold a doctoral degree and have postdoctoral experience. Competitive candidates will demonstrate an ability to develop a vigorous and independent, externally funded and nationally recognized research program; demonstrate teaching excellence and a commitment to diversity inclusion; and participate in relevant undergraduate and graduate education programs.

Applicants should submit the following items via Interfolio at <https://apply.interfolio.com/82505>: (1) cover letter; (2) Curriculum Vitae; (3) statement of research interests including future plans; (4) statement of teaching interests and experience; (5) statement describing past experience and/or future plans to promote diversity and inclusion; and (6) up to three reprints in one PDF. Applicants should also arrange, through Interfolio, the submission of three confidential letters of recommendation on their behalf.

Inquiries should be directed to Dr. Trudy Mackay (tmackay@clemson.edu).

For full consideration, applications should be submitted by October 1, 2021. Review will continue until the position is filled.

Clemson University is an AA/EEO employer and does not discriminate against any person or group on the basis of age, color, disability, gender, pregnancy, national origin, race, religion, sexual orientation, veteran status or genetic information. Clemson University is building a culturally diverse faculty and staff committed to working in a multicultural environment.

TRUDY F. C. MACKAY, PhD, FRS

SELF FAMILY ENDOWED CHAIR OF HUMAN GENETICS

DIRECTOR, CENTER FOR HUMAN GENETICS

PROFESSOR OF GENETICS AND BIOCHEMISTRY

Center for Human Genetics

Clemson University

110 Self Regional Hall

114 Gregor Mendel Circle

Greenwood, SC 29646

w 864-889-0522

c 919-604-6531

tmackay@clemson.edu

Trudy Frances Charlene Mackay  
<tmackay@clemson.edu>

## Colombian Caribbean Coast Plant Breeding

Open position as plant breeder (PhD) in Turipani  $\frac{1}{2}$  (Caribbean Coast, Colombia) A-642021

Turipani  $\frac{1}{2}$  station (Córdoba province) in the Caribbean Coast of Colombia is a joint public-private, decentralized, not-for-profit institution of scientific and technical nature. The station develops agricultural technologies through research, technology adaptation and transfer, providing technical assistance for improving production competitiveness, equitable distribution of technology benefits, and sustainable use of natural resources, strengthening Colombia's scientific and technological capacities, and contributing to improving the rural population's quality of life.

The station strategically manages seven key innovation networks in the general fields of vegetables, fruits, permanent crops (palms of economic interest, forest, and fruit tree species), short term season crops, roots and tubers, cacao, and livestock (cattle and minor species). Research is carried out at agricultural fields from a network of 13 localities throughout different agro-ecological regions.

Knowledge, conservation and sustainable use of biodiversity for improved livelihoods, and productivity and sustainability of agricultural and livestock systems make up Turipani  $\frac{1}{2}$  station building blocks. Its ultimate goal is to deliver plant and animal materials with improved traits that provide comparative advantages to the producer over available cultivars, and with added product value in the production and commercialization chain. The plant breeders at the station would work in coordination with local communities, pre-breeding programs and Gene Banks to find the most relevant traits for specific climate conditions.

### JOB DESCRIPTION

Lead the plant breeding program at the station for tropi-

cal regions, in search of improved production and quality traits in materials adapted to different agro-ecosystems, using traditional methods coupled with last generation tools.

#### KEY RESPONSIBILITIES

- Lead and participate in the generation and execution of research projects. - Bioprospecting and management of wild and regional materials with potential to be used in agro-ecological production systems. - Implement selection methodologies for efficiency in nutrient and water uptake, and or other priority agronomic traits to enhance genetic superiority. - Collaborate with other researchers discussing and executing research activities.
- Serve as an internal peer in advising, reviewing and giving written concepts on submitted projects, final reports, and publications. - Serve as a mentor and supervise junior researchers and students participating in research. - Establish collaboration and develop projects as executor or co- executor with national and international partners, as well as with private sector agencies, aligned with the station's overall strategy. - Rigorously prepare reports and publications in national and international peer-reviewed journals in the field of research.
- Participate in events having to do with dissemination of research among technical assistants, scientific organizations, and funding agencies. - Develop materials and activities for capacity building for scientists, farmers, and technical assistants.

#### QUALIFICATIONS

- Ph.D. in plant breeding, agronomy or alike. - Expertise from one to two years in plant breeding. - Fluency in English and enough knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to other research teams. - Proven ability in preparing research proposals. - The candidate is expected to have the scientific and technological productivity requirements for the position.

#### TERMS OF OFFICE

This is a permanent position. Salary commensurate with experience and qualifications. Starting monthly salary for PhD researchers is \$12 million Colombian currency - ca. \$3,200 USD. Salaries are highly competitive by Colombian standards - see cost of living here ([https://www.numbeo.com/cost-of-living/country\\_result.jsp?country=Colombia&displayCurrency=USD](https://www.numbeo.com/cost-of-living/country_result.jsp?country=Colombia&displayCurrency=USD)). The position will be based at Turipani station, located in the province of Cundinamarca, Caribbean Coast of Colombia, a major tourist hotspot, besides an exciting and exotic place for living.

Researchers from abroad are encouraged to apply and would receive the following package of benefits:

- One time \$5,000 USD for mobility. - Universal health coverage and contribution to pension fund. - Ten extra days of annual paid holidays besides the legal 18 days. - Yearly tickets to connect with Bogotá (in connection with the country of origin) for the researcher and the family.

#### APPLICATION PROCESS

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## Computercraft 2 GenBankData

Interested in an exciting and rewarding alternative career in the biosciences? Tired of bench work? Enjoy puzzles and problem solving? Incredibly detail oriented? If you answered yes to these questions, consider joining our team of highly skilled and dedicated scientists working on site at the National Center for Biotechnology Information (NCBI), part of the National Library of Medicine (NLM) at the National Institutes of Health (NIH) in Bethesda, Maryland.

Using molecular biology skills, the successful candidate will partner with computational biologists, genomic science experts, and computer specialists at NCBI to help build and maintain GenBank, one of the world's largest publicly available nucleotide sequence databases. Designed to provide and encourage access within the scientific community to the most up-to-date and comprehensive DNA sequence information, GenBank now contains more than 776 billion bases and 226 million sequences, and it continues to grow. Computercraft has provided scientific expertise to GenBank continuously since 1991. For more information about GenBank, visit <https://www.ncbi.nlm.nih.gov/genbank/>. To apply for this position or learn about other Computercraft job opportunities, please visit the Careers section of our website: <https://computercraft-usa.com/>. Computercraft offers a competitive salary, an excellent benefits package, and the opportunity for a positive work-life balance with a standard 40-hour work week and the chance to work alongside a team of highly accomplished professionals.

Computercraft is an equal opportunity employer.

Computercraft is seeking data wranglers to contribute to an exciting new initiative of the National Center for Biotechnology Information (NCBI), part of the National Library of Medicine at the National Institutes of Health (NIH), to expand tools and resources for working with genomic data. NCBI is planning a major modernization of its resources, their user interfaces, and their underlying infrastructure to support the rapidly growing collections of sequence and other data on species across the tree of life. By rearchitecting these resources, NCBI aims to improve the user experience for researchers doing a wide range of work, reach more users, support more research organisms, and ultimately drive biomedical discoveries that have the potential to improve human health.

To apply for this position or learn about other Computercraft job opportunities, please visit the Careers section of our website: <https://www.computercraft-usa.com/> . Computercraft offers a competitive salary, an excellent benefits package, and the opportunity for a positive work-life balance with a standard 40-hour work week and the chance to work alongside a team of highly accomplished professionals.

Computercraft is an equal opportunity employer.

JYU@computercraft-usa.com JYU@computercraft-usa.com

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## DukeU LabTech DrosophilaEvGen

The Noor Laboratory in the Department of Biology at Duke University is looking for an Associate in Research. Duties will include maintenance of *Drosophila* cultures, collections of unmated flies for crosses and executing said crosses in relation to a project studying the abundance of lethal alleles in natural populations. The hire will be responsible for media preparation, phenotyping individuals, DNA isolation and molecular genotyping, entering and managing data, and other help with this project. The position also entails managing undergraduate students, and requires clear communication and coordination with the lab members and other laboratory efforts. Bachelors degree in biology or related discipline required.

Duke University is an Affirmative Action/Equal Opportunity Employer committed to providing employment opportunity without regard to an individual's age, color,

disability, gender, gender expression, gender identity, genetic information, national origin, race, religion, sex, sexual orientation, or veteran status.

Duke aspires to create a community built on collaboration, innovation, creativity, and belonging. Our collective success depends on the robust exchange of ideas-an exchange that is best when the rich diversity of our perspectives, backgrounds, and experiences flourishes. To achieve this exchange, it is essential that all members of the community feel secure and welcome, that the contributions of all individuals are respected, and that all voices are heard. All members of our community have a responsibility to uphold these values.

Applications are submitted through: <https://academicjobsonline.org/ajo/jobs/19369> noor@duke.edu

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## DukeU ResAssoc BaboonEvolution

An Associate in Research position is available, starting in September 2021, in the Tung lab at Duke University. The Tung lab studies the relationship between behavior, the social environment, and genetics and genomics. We combine detailed phenotypic and demographic information with modern genomic data sets on gene regulation and epigenetics. A major focus of our research involves the evolutionary ecology and evolutionary genetics of wild baboons from the Amboseli ecosystem of Kenya. We seek a skilled Associate in Research who will contribute to generating genetic and genomic data from this population, particularly non-invasive genotyping and genotyping-by-sequencing data that will be used to extend the nine-generation Amboseli baboon pedigree. The ideal candidate will have previous experience with DNA extraction, non-invasive genotyping, and library preparation for high-throughput sequencing. Other important traits include the ability to work independently, the ability to multi-task, and a strong work ethic in a fast-paced environment. Attention to detail and careful record keeping are essential, and experience with biological sample collection or management in a field setting is desirable.

Requirements: bachelor's degree, 1-2 years of experience in a research laboratory (not just a lab class), and familiarity with the fundamentals of molecular biology.

Position is for 40 hrs/week, and will last 6 months, with the possibility of renewal contingent on performance and availability of funding.

For more information about the lab and our work, see: <http://www.tung-lab.org/> If interested, please submit your CV (including contact information for 2 references) via Academic Jobs Online at <https://academicjobsonline.org/ajo/jobs/19388> . Duke University is an Affirmative Action/Equal Opportunity Employer committed to providing employment opportunity without regard to an individual's age, color, disability, gender, gender expression, gender identity, genetic information, national origin, race, religion, sex, sexual orientation, or veteran status.

Duke aspires to create a community built on collaboration, innovation, creativity, and belonging. Our collective success depends on the robust exchange of ideas—an exchange that is best when the rich diversity of our perspectives, backgrounds, and experiences flourishes. To achieve this exchange, it is essential that all members of the community feel secure and welcome, that the contributions of all individuals are respected, and that all voices are heard. All members of our community have a responsibility to uphold these values.

Jenny Tung <jenny.tung@duke.edu>

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## GeorgeMasonU EvolutionaryGenetics

The George Mason University Department of Biology in the College of Science invites applications for an Assistant Professor to teach undergraduate and graduate courses in Evolutionary Genetics/Genomics and to develop a vigorous, externally funded research program. This is a full-time, tenure-line position to begin in August 2022. George Mason University has a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff, and strongly encourages candidates to apply who will enrich Mason's academic and culturally inclusive environment.

About George Mason University and the Biology Department:

George Mason University (Mason) is an Association for the Advancement of Sustainability in Higher Education (AASHE) STARS Silver-rated, innovative, entrepreneurial, public institution of national distinction with a student enrollment of over 36,000. It was founded in 1972 and is a Carnegie Classifications of Institutions of Higher Education "Highest Research Activity (R1)" University with research expenditures exceeding \$200

million (2020). Mason's enrollment is approximately 38,255 (with approximately 11,000 graduate students) with students studying in over 210 degree programs (127 graduate degree programs) from bachelors to doctoral, as well as Law. Mason is ranked #24 Most Diverse University in the United States (Diversity Index = .71; U.S. News & World Report, 2020) with 49% of undergraduates from underrepresented groups and 37% considered first generation. Located in the metropolitan Washington, D.C. area, Mason has campuses in Arlington, Fairfax, Loudoun, and Prince William counties. The Department of Biology includes 12 tenured and tenure-track and 14 term faculty focused on undergraduate and graduate education. It maintains research facilities including a 1700 sq. ft. climate-controlled greenhouse and an active 80,000 specimen herbarium. The Department has over 1500 undergraduate majors and employs more than 50 Graduate Teaching Assistants as well as adjunct faculty. Faculty from the Department of Environmental Science and Policy, the School of Systems Biology, the School of Integrative Studies, and the STEM Accelerator Program also contribute to the Biology Department through courses and research collaborations.

Position Responsibilities:

Candidates are expected to develop and maintain a nationally recognized and externally funded research program in their area of expertise and teach in the department's undergraduate and graduate programs. Teaching responsibilities will include a lecture section of a core undergraduate course or another within the candidate's expertise, as well as a graduate course, such as Systematics/Phylogenomics, Functional Genomics, Computational Biology and/or Evolutionary Genetics. The successful candidate will have access to significant university resources including the Microbiome Analysis Center, Smithsonian-Mason School of Conservation, a BSL-3 laboratory, and research computing facilities. The new hire will also be in close proximity to the major research institutes in the metropolitan Washington, D.C. area, such as the Smithsonian Institution, with which departmental faculty frequently collaborate. Required Qualifications:

Candidates must have completed a Ph.D. in a relevant discipline and share the department's commitment to excellence in undergraduate and graduate instruction; Candidate's research should center on Genome Evolution, Functional Genomics, Quantitative Genetics, or other areas that explore the genotype to phenotype relationship within the framework of integrative biology; Ability to collaborate with faculty and graduate students will be expected. Preferred Qualifications:

Individuals with post-doctoral experience and a proven

record of external research funding; Candidates whose research uses a variety of eukaryotic systems and experimental approaches, and candidates with a research focus in botany is preferred.

Applicants must apply for position number F6219z at <http://jobs.gmu.edu/>; submit the online application; upload a cover letter, CV, a list of three references with contact information, and statement of teaching experience/philosophy and research interests. For full consideration, applications should be submitted by November 5, 2021. This position will remain open until filled.

HC Lim

Asst. Professor, George Mason University  
Hlim22@gmu.edu <https://sites.google.com/view/gmuevogen/home> hlim22@gmu.edu

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## Ifremer France GeneticsMarineInvertebrate

\*The Institute and the recruiting departement\*

A pioneer in ocean science, IFREMER's cutting-edge research is grounded in sustainable development and open science. Our vision is to advance science, expertise and innovation to:

Protect and restore the ocean Sustainably use marine resources to benefit society Create and share ocean data, information & knowledge. With more than 1,500 personnel spread along the French coastline in more than 20 sites, the Institute explores the 3 great oceans: the Indian, Atlantic and Pacific oceans. A leader in ocean science, IFREMER is managing the French Oceanographic Fleet and its dedicated scientists create ground-breaking technology to push the boundaries of ocean exploration and knowledge, from the abyss to the atmosphere-ocean interface.

Well-established in the international scientific community, our scientists, engineers and technicians are committed to advance knowledge about our planet's last unexplored frontiers. They provide the science we need for informed decision-making and public policy and they transfer this knowledge and technology to businesses to fulfill public and private needs. Core to our mission is also to strengthen public awareness about the importance of understanding the ocean and its resources, and empowering future generations of leaders through education and outreach national campaigns.

Founded in 1984, IFREMER is a French public organization and its budget approximates 240 million euros. It is operating under the joint authority of the French Ministry for Higher Education, Research and Innovation, the french Ministry of the Sea, the French Ministry for the Ecological and Solidary Transition, and the French Ministry of Agriculture and Food.

The main objective of the research unit "Health, Genetics and Microbiology of Molluscs" (SG2M) is to improve knowledge in the field of (1) adaptation and health of invertebrate species of interest for marine aquaculture with a specificity for marine molluscs (2) the safety of coastal ecosystems including shellfish production areas in relation with public health, global change and sustainable—organisation.

Included within the SG2M research unit, the Laboratory of Genetics and Pathology of Marine Molluscs (LGPMM) conducts projects related to 1) the study of diseases affecting marine molluscs, 2) the understanding of mechanisms involved in host adaptation, in particular in response to diseases (contribution to disease resistance and associated determinisms). Thanks to its expertise recognised internationally, the LGPMM gathers research, surveillance and reference activities.

Under the responsibility of the head of the laboratory, the new recruit will develop and implement research projects in genetics, in particular quantitative genetics and genomics in order to decipher mechanisms involved in marine invertebrate adaptation to diseases and global change, contributing to improve durably their health.

\*General areas of responsibility\*

Specializing in association genetics approaches (QTLs, GWAS ...) and genomic selection, the new recruit will apply her/his skills to investigate genetic and molecular determinants associated with the resistance and the adaptation of marine invertebrates to diseases and global change.

More specifically, she/he will develop and coordinate scientific works in quantitative genetics and genomics in marine invertebrates in order to better understand mechanisms involved in their health and adaptation.

\*Principal activities\*

\*Her/his main activities will consist in :\*

Developing quantitative genetic models in order to characterize genetic bases of traits of interest in marine invertebrates, Establishing reference genomes of marine invertebrates, Integrating advances in genomics allowing to identify polymorphisms involved in genetic variability, Investigating mechanisms of artificial and natural selection in marine invertebrate populations, Developing and

coordinating research projects in response to national and international calls, Disseminate scientific results through articles in research journals and reports, Participating in research training through the supervision of Master PhD students, postdocs and technicians .

\*She/He will also contribute to :\*

Technology intelligence and knowledge of tools and approaches required to the genetic characterization of marine invertebrate notably sequencing approaches and functional annotation; Recording of data and related metadata.

\*Collaborative work environment\*

Internal collaborative relationships : SG2M ; IHPE ; MARBEC; PFOM/UMR LEMAR, Sebimer, LERs

External collaborative relationships : The national and international scientific community

\*Required Knowledge, skills, and characteristics\*

PhD in animal or plant genetics with a post doc experience in this field Strong experience and knowledge of formats used in genomic

\*Required knowledge, skills and characteristics\*

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## IllinoisStateU Normal Microbiology

### TENURE TRACK FACULTY POSITIONS SCHOOL OF BIOLOGICAL SCIENCES ILLINOIS STATE UNIVERSITY

The School of Biological Sciences at Illinois State University in Normal, IL (<https://biology.illinoisstate.edu/>) invites applications for two nine-month, tenure-track positions, one each in MICROBIOLOGY and NEUROETHOLOGY at the level of Assistant Professor. The School of Biological Sciences comprises 26 faculty, approximately 65 graduate students (M.S. and Ph.D.), and over 750 undergraduate majors. It offers a collegial environment fostering collaboration among cell and molecular biologists, physiologists, organismal biologists, and neuroscientists as well as opportunities for interdisciplinary collaborations within the college or the

university. The University and the School of Biological Sciences are committed to increasing the diversity and inclusivity of the campus community, recognizing that a diverse and inclusive faculty, staff, and student body enriches the scholarly experiences for the ISU campus and greater community. Candidates who have experience working with a diverse range of faculty, staff, and students, and a demonstrated commitment to fostering a diverse and inclusive community are encouraged to apply. We are sensitive to the needs and invested in the success of dual career partnerships.

ASSISTANT PROFESSOR OF MICROBIOLOGY. We seek candidates whose research addresses fundamental questions from the breadth of microbiology, such as microbe-host interactions and coevolution, biology of free-living microorganisms, microbial physiology & genetics, microbial biotechnology, microbial ecology, or microbial evolution & phylogeny. Candidates should be able to contribute to undergraduate courses in microbiology for biology and biomedical students, and to develop a graduate course in their area of expertise.

ASSISTANT PROFESSOR OF NEUROETHOLOGY. We seek candidates conducting cutting-edge research in neuroethology that complements our existing research programs in neuroscience, physiology, and behavior using invertebrate and vertebrate systems. Candidates using vertebrate or non-traditional model systems are encouraged to apply. Candidates should be able to contribute to undergraduate courses in neuroscience and animal behavior for biology and biomedical students, and to develop a graduate course in their area of expertise.

Successful candidates are expected to establish a rigorous, nationally recognized, extramurally funded research program, publish scholarly research in quality, peer-reviewed journals, advise and mentor B.S., M.S., and Ph.D. students in their research groups, and provide effective, evidence-based instruction in their discipline. A Ph.D. in the specific field of biology or a closely related field, and a minimum of 2 years of post-doctoral research experience by position start date are required. State law mandates demonstrable oral proficiency in the English language as a requirement of this position. Salary is competitive and commensurate with qualifications and experience.

Please complete an online faculty application for posting number 512130 (Microbiology) or posting number 512133 (Neuroethology) at <https://www.jobs.ilstu.edu>. Applicants will be instructed to attach: i) a cover letter, ii) curriculum vitae, iii) a two-page research statement, iv) a one-page teaching statement, v) a one-page statement describing your interest in or effort toward

furthering diversity, equity, and inclusion, vi) PDFs of three representative publications, and vii) names and e-mail addresses for three references. Review of applications will begin on Oct. 7, 2021 and continue until the position is filled. Intended start date is August 16, 2022. Questions about the Microbiology search should be directed to Dr. Steven Juliano (sajulian@ilstu.edu), while questions about the Neuroethology search should be directed to Dr. Joe Casto (jmcasto@ilstu.edu).

ABOUT ILLINOIS STATE UNIVERSITY (<https://hr.illinoisstate.edu/prospective/>): We are a coeducational, residential university, with almost 21,000 students, committed to fostering a small-college atmosphere with large-university opportunities and promoting the highest academic standards in teaching, scholarship, and community service. We are a learner centered, discovery-driven and globally linked School that values individual attention in both the research and classroom setting. Illinois State University has repeatedly been named a "Great College to Work For" by The Chronicle of Higher Education. The College of Arts and Sciences (<https://cas.illinoisstate.edu/>) unites 18 academic units, with faculty, students, and staff engaged in educational, research, and service activities in the core academic disciplines of

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## **KULeuven Belgium EcolEnvironEvolGenomics**

ASSISTANT/ASSOCIATE PROFESSOR IN ECOLOGICAL, ENVIRONMENTAL AND EVOLUTIONARY GENOMICS at KU Leuven, Belgium

REMINDER: deadline 17th September 2021

<https://www.kuleuven.be/personeel/jobsite/jobs/-60042019?hl=en&lang=en> The Division 'Ecology, Evolution and Biodiversity Conservation' at the Department of Biology at the KU Leuven (Belgium) is seeking candidates for a faculty position in 'Ecological, Environmental and Evolutionary genomics' starting 1 October 2022. This research profile focuses on advanced expertise in genomic and bioinformatic tools to investigate research questions at the interface

of evolutionary biology, ecology and global change biology. The research program aims at obtaining profound insight in the (mal)adaptation of natural populations of aquatic organisms. Websites of the Department and Division: <https://bio.kuleuven.be/> and <https://bio.kuleuven.be/eeb>.

The position starts as a research professorship and gradually blends research with the (co-)teaching of various courses in the Bachelor and Master programs of Biology such as 'Ecological and Evolutionary Genomics', 'Evolutionary and Quantitative Genetics', and 'Freshwater and Marine Ecology'.

We expect the successful candidate to:

- \* be an excellent, internationally oriented researcher and develop a research program at the forefront of Ecological, Environmental and Evolutionary Genomics that focuses on the (mal)adaptation of natural populations of aquatic organisms.
  - \* bring complementary and new expertise in molecular ecology by applying molecular genetic techniques (e.g., genomics, transcriptomics, metabarcoding and metagenomics) to address questions in ecology, evolution, ecotoxicology, behaviour and/or conservation biology.
  - \* strengthen current research lines by working closely with the members of the Biology Department on 'Eco- and socio-evolutionary dynamics' and/or 'Global change biology'.
  - \* publish at the highest scientific level in top 5% journals of her/his research field.
  - \* develops her/his own independent research group.
  - \* supervise master students, PhD students and postdocs at a high international level.
  - \* acquire competitive research funding from national and/or international agencies and submits successful research project proposals for this purpose.
  - \* have a pronounced interest in fundamental research but also to pay attention to the valorization and applications of her/his research findings.
  - \* consolidate and manage the aquatic genomics laboratory and maintain close ties with the KU Leuven Genomics Core ([www.genomicscore.be](http://www.genomicscore.be)).
- We offer amongst others
- \* full-time employment in an intellectually challenging environment. KU Leuven is a research-intensive, internationally oriented university that carries out both fundamental and applied scientific research. KU Leuven was elected Europe's most innovative university by Reuters and consistently ranks and

features in Europe's top-15 universities within the Times Higher Education ranking (<https://www.timeshighereducation.com/world-university-rankings/ku-leuven#ranking-dataset/589595>).

Our university is highly inter- and multidisciplinary focused and strives for international excellence. In this regard, we actively collaborate with research partners in Belgium and abroad. We provide our students with an academic education that is based on high-quality scientific research.

\* state-of-the-art facilities in genomics, computational biology, image processing, experimental out- and indoor wet labs, and analytical labs, as well as access to relevant cores such as the KU Leuven Genomics Core ([www.genomicscore.be](http://www.genomicscore.be)) and Imaging Core Facility, and opportunities to team up with the KU Leuven Plant Institute and the KU Leuven Institute for Single-Cell-Omics.

\* a fine work place in Leuven, a historic, dynamic and vibrant city located in the heart of Belgium, within twenty minutes from Brussels, the capital of the European Union, and less than two hours from Paris, London and Amsterdam.

\* a welcoming environment to foreign professors and their family, including practical support regarding immigration and administration, housing, childcare, learning Dutch, partner career coaching, ...

\* a starting grant of 100,000 euro in order to facilitate scientific onboarding and accelerate research in the first phase; 4 PhD years are offered by the Department of Biology.

This vacancy is imbedded in the general BOFZAP call. The successful candidate will be appointed in one of the two 'BOFZAP' categories of research professorships: junior BOFZAP for a researcher with high research potential proven by internationally recognized scientific publications,

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## MonashU 2 PlantAnimalEvolution

Dear Evoldir readers,

The School of Biological Sciences at Monash University (Melbourne, Victoria, Australia), has two open job searches that should be of interest to evolutionary biologists: one position is in the area of plant science (closing 18 October), and the other in the area of organismal biology of animals (closing 20 October). Both positions are at the "lecturer/senior lecturer" level, which is similar to asst/assoc prof. in the N. American system. Further details can be found through the links:

<https://careers.pageuppeople.com/513/cw/en/job/621776/lecturersenior-lecturer-plant-science>

<https://careers.pageuppeople.com/513/cw/en/job/621778/lecturersenior-lecturer-organismal-biology>

More info about the School of Biological Sciences can be found here:

<https://www.monash.edu/science/schools/biological-sciences> Please come work with us!

Tim Connallon <[tim.connallon@monash.edu](mailto:tim.connallon@monash.edu)>

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## NewHaw England MicrobialGenomics

Microbial Genomics Scientist (SRTB20.126) Full time Permanent Job reference: 146197 Closing date: 19 September 2021

The bovine tuberculosis (BTB) Genotyping team within the Bacteriology Department at the Animal and Plant Health Agency are currently looking for a Microbial Genomics Scientist responsible for: Analysis of whole-genome sequencing (WGS) data and phylogenetic analysis to support TB control. Production of technical reports presenting the data, results and conclusions. Provide support and advice to field epidemiological and other members of staff on the interpretation of results. Investigate and validate analysis methods and workflows.

This role is being offered as a permanent appointment as a Microbial Genetics Scientist in the BTB Genotyping team. APHA have recently introduced the use of routine WGS to BTB diagnostic and characterisation approaches. The post holder will be responsible for WGS data processing and phylogenetic analysis to support epidemiological investigations of bovine TB outbreaks including analysis of data, generation of reports and liaison with stakeholders to support on interpretation of findings.

Responsibilities



The successful candidate will: Perform high-quality and reproducible analysis of ad-hoc requests as part of the Agency's response to bovine TB outbreaks Prepare technical reports and present findings to relevant scientific and stakeholder meetings Support and advise field staff on the interpretation of results informing on breakdown source and ongoing management of TB breakdowns Communicate and work closely with the head of the TB Genotyping team as well as researchers, bioinformaticians, data scientists, APHA epidemiologists and Veterinary Officers to build working relationships, and to ensure that information is being shared as appropriate and requirements are being met Implement, update and validate workflows for data processing and phylogenetic analysis Participate in scientific discussions, workshops and training with regards to the use of WGS for epidemiological investigations Contribute to scientific outputs in the area of Bovine TB genomics by exploiting in house surveillance findings Communicate with and support members of the team

#### Experience

Knowledge of microbial genetics/genomics Practical knowledge and experience in next-generation sequencing data and phylogenetic analysis Strong organisational skills and the ability to prioritise workloads Experience in successful communication of complex scientific data to non-specialists.

#### Technical

Experience in command-line environment Experience writing code in a language such as Python, Perl, R or Nextflow Experience in both Windows and Linux operating systems

For full job description and to apply, copy the following link on your web browser: <https://www.civilservicejobs.service.gov.uk/csr/-jobs.cgi?vxsys=4&vxvac=146197> Contact point for applicants Job contact : Name : Eleftheria Palkopoulou Email : [eleftheria.palkopoulou@apha.gov.uk](mailto:eleftheria.palkopoulou@apha.gov.uk)

Recruitment team : Email : [defrarecruitment.grs@cabinetoffice.gov.uk](mailto:defrarecruitment.grs@cabinetoffice.gov.uk)

Elle Palkopoulou <[elle.palkopoulou@gmail.com](mailto:elle.palkopoulou@gmail.com)>

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## New YorkU Ecology Evolution

The Department of Biology at New York University is hiring in evolution and ecology! The official job ad is below. If you work in ecology and/or evolution and your research program is in some way connected to urban environments, please apply! - Matt Rockman [mrockman@nyu.edu](mailto:mrockman@nyu.edu)

Application Deadline: Nov 15, 2021 Application Link: <https://apply.interfolio.com/94255> New York University's Department of Biology invites applicants for a tenure track position beginning ideally on September 1st 2022, pending budgetary and administrative approval.

We are interested in applicants whose research is in the area of Ecology and Evolution, with a focus on urban environments. This search is part of a cluster hire in Transforming Ecologies in Urban Environments that also includes the Department of Environmental Studies and will likely expand to other Departments in future years. More information about this cluster can be found at <https://www.nyu.edu/faculty/teaching-and-learning-resources/faculty-advancement/faculty-recruitment/nyu-faculty-cluster-hiring-initiative.html#transforming>, along with background about NYU's broader Faculty Cluster Hiring Initiative. This search is for tenure track Assistant Professors. Candidates are expected to develop an externally-funded research program and to participate in the teaching mission of the Department.

The Department of Biology (<http://biology.as.nyu.edu>) offers a collaborative, interactive, interdisciplinary and innovative research environment that supports ambitious research projects across the range of biology. Our core facility provides excellent and subsidized access to numerous resources including sequencing and high-performance computing. And our Department is committed to the success of all faculty, with an active mentoring program for junior faculty.

Application packages should include a cover letter, separate research, teaching and diversity statements, a curriculum vitae and three reference letters. Full details of the required documents and how to apply online are at <https://apply.interfolio.com/94255>. Please send your completed application by November 15th 2021.

The Faculty of Arts and Science at NYU is at the heart of a leading research university that spans the globe.

We seek scholars of the highest caliber that embody the diversity of the United States as well as the global society in which we live. We strongly encourage applications from women, racial and ethnic minorities, and other individuals who are under-represented in the profession, across color, creed, race, ethnic and national origin, physical ability, gender and sexual identity, or any other legally protected basis. NYU affirms the value of differing perspectives on the world as we strive to build the strongest possible university with the widest reach. To learn more about the FAS commitment to diversity, equality, and inclusion, please read here: <https://as.nyu.edu/departments/facultydiversity.html> Application Instructions Required application materials: 1. A one page cover letter that briefly describes the applicant's past and future research areas, and how their planned research program fits with and/or expands current research in the Department. 2. The applicant's CV. 3. A research statement of up to 3 pages. The first page should summarize the applicant's most significant scientific accomplishments as a PhD student and a postdoc. The remainder should explain the applicant's future plan and vision for their independent research program. References may be added on a fourth page. 4. A one page teaching statement describing the applicant's teaching experience and teaching philosophy. 5. A one page diversity and inclusion statement that describes the applicant's past activities, experiences and future plans to advance diversity and inclusion. NYU is committed to building and strengthening a university-wide culture of diversity, inclusion, and equity. Please see: <https://as.nyu.edu/departments/facultydiversity/-recruitment/diversity-statements.html> 6. The names and email addresses for 3 reference letters. The letter-writers will be contacted automatically by Interfolio, but it is often a good idea to remind them.

Matthew Rockman <mr176@nyu.edu>

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## OIST Okinawa InsectCollectionsFieldSpecialist

I would like to announce that the Okinawa Institute of Science and Technology is looking for a Collections Manager / Field Team Leader for the OKEON long-term ecological research network. Okinawa is a fantastic place to live if you enjoy surfing, diving, or other outdoor activities. More information can be found here (<https://www.oist.jp/ja/careers/36507>) and below:—

The Okinawa Institute of Science and Technology Graduate School (OIST: see [www.oist.jp](http://www.oist.jp)) is a graduate university in Okinawa Prefecture that specializes in innovative science and technology research. The university is established in the midst of an 85-hectare forest, overlooking a beautiful coast and coral reef. The campus has been designed with an impressive attention to detail from an architectural point of view, highlighting the university's facilities in their natural setting. The absence of departmental barriers provides an environment for interdisciplinary research, and ensures that everyone on campus has access to top-quality resources and equipment for collaborative research. OIST is rapidly gaining recognition in the global academic community as a model of excellence in teaching and research.—

**JOB DESCRIPTION**— The Environmental Science Section (<https://groups.oist.jp/ja/ess>) of the Okinawa Institute of Science and Technology Graduate University (OIST) is responsible for maintaining the field observation network for Okinawa's collaborative community-based environmental monitoring project, the OKEON Churamori Project. In addition, the section uses its expertise to support field research by researchers in the university.—

We are looking for a Research Support Specialist to lead the section's field team, play a central role in supporting OIST field research, and manage the section's operations together with the following conditions.—

**LOCATION**— 1919-1 Tancha, Onna-son, Kunigami-gun, Okinawa 904-0495, Japan—

**RESPONSIBILITIES**— - Maintenance and operation of monitoring sites, camera traps and measurement equipment.— - Quality control of field sample collection, sorting, and specimen preparation processes through to data entry.— - Arthropod collection management.— - Manage the safety and workload of field team mem-

bers and provide necessary training.— - Field research support activities based on requests from researchers inside and outside the university.— - Preparation and presentation of research results in collaboration with the research team.— - Other duties related to the projects implemented by this section.—

QUALIFICATIONS— (Required)— - Doctoral degree or equivalent skills and experience.— - Experience in field research.— - Strong work ethic.— - Good communication and coordination skills, flexibility, patience and responsibility.— - Specimen management skills.— - Ability to communicate in Japanese and English.— - Driver's license required.—

(Preferred)— - Ability to identify a wide range of insects in general, Hymenoptera in particular— - Experience in handling large insect collections and their specimen management databases is desirable.—

STARTING DATE— April 2022 or as soon as possible—  
— TERM & WORKING HOURS— Full-time, one-year term, including a three-month probationary period (renewable).— 8:30am - 5:00pm (discretionary: subject to restrictions based on attendance management of temporary staff, weather conditions, etc.)—

COMPENSATION & BENEFITS— - Compensation will be based on experience and ability in accordance with the school's regulations.— - Relocation allowance, housing allowance, commuting allowance, on-site childcare— - Annual paid vacation, summer vacation, etc.— - Mutual Aid for Private Education (<http://www.shigakukyosai.jp/>)—

HOW TO APPLY— Please use this link to submit your documents: (<https://asp.gigacc.com/user/~sa-rp1ktrp0giemmmi503md6h1mg>)— If you have any questions about this position, please contact recruiting#oist.jp or masashi.yoshimura#oist.jp— (Please replace # with @ when sending email)—

SUBMISSION DOCUMENTS— - Cover letter— - Resume and curriculum vitae— - Names and contact information for 2-4 references—

Nicholas R. Friedman, PhD Environmental Informatics Core Facility Leader OKEON Churamori Project Coordinator Okinawa Institute of Science and Technology

Nicholas Ryan Friedman <nicholas.friedman@oist.jp>

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## OklahomaStateU VertebrateSystematics

The Department of Integrative Biology at Oklahoma State University invites applications for a tenure-track Assistant Professorship in the area of vertebrate systematic biology. The department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through their strong commitment to research, teaching, and mentoring. The candidate will also participate in leadership of the in-house Collection of Vertebrates (COV). The COV currently houses over 60,000 specimens of fish, amphibians, reptiles, birds, mammals, and frozen tissues, which serve our teaching and research missions.

The Department of Integrative Biology comprises 25 faculty, numerous active adjunct and emeritus members, 54 graduate students, and nearly 900 undergraduates majoring in biology, zoology, and physiology. Members of the department strive for an inclusive atmosphere that fosters and provides support for success and a welcoming place to work. Faculty members actively collaborate on three main research themes: ecology, evolution, and environmental stress. See our website (<https://integrativebiology.okstate.edu>) for more information. Our research is supported by external grants, and the successful applicant will be expected to establish an extramurally funded research program. This appointment will be appropriately balanced among research, teaching, and COV responsibilities.

Oklahoma State University is a Carnegie Tier 1 research university with excellent facilities for research and instruction, including a high-performance computing center. Because of its mid-continent location that spans a broad expanse of habitats, from deciduous forest to semi-arid grasslands, Oklahoma offers a rich tapestry of prairie and forest ecosystems that support an exceptional level of biodiversity.

The University is located in Stillwater, Oklahoma, rated the friendliest college town in America. The town offers an exceptionally high quality of life- a thriving college community with a low cost of living. Stillwater is well served by a local airport, with convenient worldwide connections through Dallas- Fort Worth. Two major metropolitan areas (Tulsa and Oklahoma City) offer numerous shopping, dining, and cultural activities within a short drive of Stillwater.

Applicants should have a Ph.D. and a record of excellence in research and scholarship, and experience with museum collections.

To apply, please submit the following items via Interfolio (<https://apply.interfolio.com/94871>): cover letter; curriculum vita; separate research (which should include a section dedicated to your curatorial philosophy), teaching, and diversity statements; and contact information for three professional references. Application review will begin October 29, with employment starting August 2022 or as negotiated. Interviews may be held online, to be determined by developments with the Covid-19 pandemic.

Oklahoma State University, as an equal opportunity employer, complies with all applicable federal and state laws regarding non-discrimination and affirmative action. Oklahoma State University is committed to a policy of equal opportunity for all individuals and does not discriminate based on race, religion, age, sex, color, national origin, marital status, sexual orientation, gender identity/ expression, disability, or veteran status with regard to employment, educational programs and activities, and/or admissions. For more information, visit <https://eeo.okstate.edu>. Contact Bruce Waldman (bruce.waldman@okstate.edu), Search Committee Chair, for further information.

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## Sanger Bioinformatician TreeOfLife

Hi all,

Please find here an exciting opportunity to join our ToLA (Tree of Life Assembly) team as a senior bioinformatician, specially to work on the challenge of assembling symbionts.

Add bellow:

<https://jobs.sanger.ac.uk/vacancy/senior-bioinformatician-assembly-moore-aquatic-symbiosis-project-tree-of-life-458923.html> Best, Marcela. – Marcela Uliano da Silva, PhD

Senior Bioinformatician - Wellcome Sanger Institute Darwin Tree of Life Project

Marcela Uliano da Silva <marcela.uliano@gmail.com>

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## SunYatSenU Evolution

Multiple faculty positions available at the School of Ecology Sun Yat-sen University, Shenzhen, China

About SYSU EEB The Ecology & Evolution discipline of Sun Yat-sen University (SYSU) has a long heritage, tracing its roots back to the Department of Biology at the foundation of SYSU in 1924 by Dr. Sun Yat-sen. The Ecology discipline (where evolution is treated as a subdiscipline) of SYSU is ranked first in the discipline quadrennial evaluation among all universities in China in 2012 and 2017. Its undergraduate program was awarded an “A+ top Discipline” by the Ministry of Education of China.

Our recent research focuses on the mechanism of biodiversity and evolution, sustainable development and humans-nature interactions, addressing both basic and applied research frontiers. SYSU EEB faculty’s research currently covers phylogenomics, population genomics, hybridization, non-coding element evolution, cancer evolution, behavioral ecology and more.

Established in 2018, the School of Ecology (<http://eco.sysu.edu.cn>) is located on the Shenzhen Campus of SYSU, at the heart of the Guangdong- Hong Kong- Macao Greater Bay Area. The school, first of its kind in China, represents an innovative initiative for SYSU to further develop the EEB discipline. Given our strong foundation in key ecology and evolutionary sub-disciplines, we stay committed to building a set of core research directions with distinguished and leading scientists in the fields of 1) mechanisms of biodiversity formation and evolution, 2) maintenance and conservation of biodiversity,

Applicants with expertise in all evolutionary subdisciplines are welcome, including but not limited to \* Evolutionary genomics \* Experimental evolution \* Evolutionary theory \* Population genetics \* Evolutionary epigenetics \* Behavior evolution \* Evolution of aging and life history \* Pathogen & disease evolution \* Evolution of sexual selection \* Sensory system evolution \* Hybridization \* Evolution of crops and domesticated animals

The School of Ecology offers a diverse, productive, and well-funded research environment that is highly supportive of both junior and senior faculty.

2. Job Openings and Description \* One full profes-

sor (tenured) \* Three associate professors (tenured) or assistant professors (tenure-track)

3. Requirements \* A background in related fields of evolutionary biology with a PhD or equivalent degree \* A strong academic record evidenced by scholarly publications and/or previous grants \* Openness to collaborative research \* The applicant is expected to develop a vibrant extra-murally funded research program, as well as teach undergraduate and graduate courses in their areas of expertise. \* Excellent written and oral communication skills.

3. Contact For more information and enquiries about the positions, please contact Dr. Rongfeng Cui at [cuirf@mail.sysu.edu.cn](mailto:cuirf@mail.sysu.edu.cn). Review of completed applications will continue until the positions are filled.

✉ [cuirf@mail.sysu.edu.cn](mailto:cuirf@mail.sysu.edu.cn)

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## TexasAMU 4 Evolution

The Department of Biology at Texas A&M University (TAMU) invites applications for tenure-track assistant professor positions in evolution (4 positions) and microbiology (1 position). We will consider candidates pursuing innovative research in any area of these fields, including empirical, theoretical or computational approaches applied to any organismal system or taxonomic group. The criteria for selection will be creativity and excellence in research and scholarship, with a preference for candidates whose research integrates with other research focus areas in the department (Biological Rhythms, Resilience, Regeneration and Repair, Synthetic Biology). We require all candidates to have a Ph.D. We strongly encourage applications from candidates with backgrounds that are underrepresented in science, and those with experience promoting diversity and inclusion.

This search represents the continuation of a multi-year strategic hiring effort to move several cutting-edge research areas within the biological sciences at Texas A&M University to preeminence. Expectations for successful candidates are to develop an externally funded research program and to teach undergraduate and graduate courses. This is an exciting opportunity for new hires to be a part of developing interdisciplinary teams to tackle important problems in biology. The Department of Biology ([www.bio.tamu.edu](http://www.bio.tamu.edu)) is part of an interactive and collegial research environment, offering a modern infrastructure and competitive startup packages. The broader Texas A&M research commu-

nity includes a number of exciting interdepartmental doctoral programs such as Ecology and Evolutionary Biology ([eeb.tamu.edu](http://eeb.tamu.edu)), Genetics ([genetics.tamu.edu](http://genetics.tamu.edu)), and Neuroscience ([tamin.tamu.edu](http://tamin.tamu.edu)). For full consideration, applicants should submit a letter of intent, curriculum vitae, a statement of research and teaching interests, a statement addressing past and/or potential contributions to diversity and inclusion, and three letters of recommendation by November 15, 2021. Application materials must be submitted online at <http://apply.interfolio.com/94968>.

If you have questions about this search, please direct e-mails to Dr. Heath Blackmon, Chair of the search committee, at [hblackmon@bio.tamu.edu](mailto:hblackmon@bio.tamu.edu). Bryan-College Station, home to Texas A&M University, is a vibrant, dynamic, and rapidly growing community that offers cultural diversity, arts and entertainment, job opportunities, and overall quality of life. Located in the heart of the Houston-Dallas-Austin triangle, the region offers the modern amenities of a big city with a warm, small-town charm, and the community's low cost of living is advantageous to the student and general populations, making it an ideal place to live. Many exceptional natural history destinations (e.g. Big Thicket National Preserve) are less than a day's drive away. Texas A&M University is committed to enriching the learning and working environment for all visitors, students, faculty, and staff by promoting a culture that embraces inclusion, diversity, equity, and accountability. Diverse perspectives, talents, and identities are vital to accomplishing our mission and living our core values.

### Equal Employment Opportunity Statement

Texas A&M University is committed to enriching the learning and working environment for all visitors, students, faculty, and staff by promoting a culture that embraces inclusion, diversity, equity, and accountability. Diverse perspectives, talents, and identities are vital to accomplishing our mission and living our core values.

Equal Opportunity/Affirmative Action/Veterans/Disability Employer committed to diversity.

\*Heath Blackmon, Ph.D.\* \*Assistant Professor\* \*2021 Texas A&M Institute of Data Science Career Initiation Fellow\* \*Texas A&M University\* \*[coleoguy.github.io](https://github.com/coleoguy)\* \*@coleoguy\*

Heath Blackmon <[coleoguy@gmail.com](mailto:coleoguy@gmail.com)>

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## TowsonU EvolutionaryBiology

Assistant Professor positions in Integrative Biology or Aquatic Ecology/Evolutionary Biology

Department of Biological Sciences The Jess and Mildred Fisher College of Science and Mathematics Towson University

Positions: The Fisher College of Science and Mathematics invites applications for two tenure-track Assistant Professor appointments in the area of Integrative Biology and two tenure-track Assistant Professor appointments in the area of Aquatic Ecology/Evolutionary Biology in the Department of Biological Sciences beginning August 2022. Salary is commensurate with experience.

Qualifications: PhD in the biological sciences. Successful applicants are expected to possess a strong commitment to excellence in teaching students from diverse backgrounds, to establish a productive research program involving undergraduate and master's students, and to actively pursue extramural funding for that research. Individuals with postdoctoral experience are strongly encouraged to apply. Candidates should be able to demonstrate a commitment to teaching, advising, and mentoring students from a diverse student body including students of color and non-traditional students.

Responsibilities: For all positions, the teaching load will usually consist of 1-2 classes each semester. Faculty will teach at the undergraduate and graduate level. Development of a course-based undergraduate research laboratory class (CURE) is encouraged and supported via faculty professional development opportunities.

Integrative Biology (FCSM - 3502) The successful candidates' research programs will involve the use of molecular techniques to integrate across at least two traditional biological sub-disciplines including those in cell/molecular biology, physiology and ecology/evolution. Teaching responsibilities may include introductory biology, an upper level course in cell or molecular biology, or an upper-level elective or graduate course in the candidate's area of specialization.

Aquatic Ecology/Evolutionary Biology (FCSM - 3503)

The candidates are expected to develop a field and/or collections-based research program that involves undergraduate and graduate students with an emphasis on aquatic ecosystems. Teaching responsibilities will in-

clude General Zoology and one graduate course in the candidate's area of specialization, along with at least one of General Ecology, Marine Biology, Limnology, Ornithology, Biostatistics or other upper-level undergraduate course with a systems or organismal focus.

Department of Biological Sciences: The Department of Biological Sciences (<https://www.towson.edu/fcsm/-departments/biology/>) supports research spanning multiple disciplines with an emphasis on collaborative, interdisciplinary work in cell and molecular biology; ecology, evolution and conservation; physiology; and science education. Faculty also actively contribute to three interdisciplinary degree programs: Animal Behavior; Molecular Biology, Biochemistry and Bioinformatics; and Environmental Science and Studies. The department is dedicated to providing high-quality education to both undergraduate and Master's students, with a focus on endowing students with the knowledge, skills and techniques necessary for success at Towson University and beyond. In particular, we are committed to providing all students an opportunity to engage in research, both through conducting independent research in faculty labs as well as participating in course-based undergraduate research (CURE) laboratory classes. With funding from an Inclusive Excellence grant from the Howard Hughes Medical Institute, we are creating new CURE classes in diverse disciplines in Biology and other departments. This grant along with our NIH-funded Bridges to the Baccalaureate and Bridges to the Doctorate grants highlights our ongoing commitment to supporting our diverse student body in reaching their educational and career goals in science.

In 2021 the Department, along with Chemistry and Physics, Astronomy and Geoscience, moved into a new science building which created additional opportunities for collaboration and data collection. The new Science Complex houses the TU Biodiversity Center, a state-of-the-art collections facility focused largely on the mid-Atlantic region. The largest holdings of the Center are in amphibians and reptiles, insects and plants, with additional collections of birds, fish, mammals and non-insect invertebrates. The Urban Environmental Biogeochemistry Laboratory provides extensive equipment and collaboration opportunities across the three departments housed in the Science Complex. Field research opportunities exist at our 220-acre field station 20 miles north of campus with access to the Gunpowder River and at our Research and Education Center in Port Deposit, Maryland on the Susquehanna River.

Towson University:



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## UCalifornia Berkeley Plant Evolutionary Biology

Assistant/Associate/Full Professor - Plant Evolutionary Biology/Director of the University and Jepson Herbaria - Department of Integrative Biology Job #JPF03017 Integrative Biology / College of Letters & Science - Biological Sciences / UC Berkeley

**POSITION OVERVIEW** Position titles: Assistant Professor Plant Evolutionary Biology/Director of the University and Jepson Herbaria

Associate/Full Professor Plant Evolutionary Biology/Director of the University and Jepson Herbaria

Anticipated start: July 1, 2022

**APPLICATION WINDOW** Open September 2nd, 2021 through Monday, Nov 8, 2021 at 11:59pm (Pacific Time)

**POSITION DESCRIPTION** Assistant/Associate/Full Professor, Plant Evolutionary Biology/Director of the University and Jepson Herbaria

The University of California, Berkeley

Department of Integrative Biology

The Department of Integrative Biology and the University and Jepson Herbaria at the University of California, Berkeley invite applications for a tenure-track (assistant rank) or tenured (associate or full rank) professor in Plant Evolutionary Biology. This position includes appointment as Director of the University and Jepson Herbaria, with the largest herbarium collection in the western US, 14 affiliated faculty curators, ten staff members, an active public outreach program, and a number of ongoing institutional research and informatics projects.

UC Berkeley offers a world class environment for research and teaching in Plant Evolutionary Biology. Our campus is one of the world's top public universities and promoting diversity, equity, inclusion and belonging is integral to our research and teaching missions.

We seek applicants who will pursue an innovative and integrative research program in Plant Evolutionary Biology that will complement existing faculty strengths.

“Plant” is defined in the broadest, non-phylogenetic sense to include all the organisms studied in the herbaria: lichens, algae, fungi, or embryophytes; terrestrial or marine. “Evolutionary biology” is defined in the broadest sense to include specimen-based and comparative studies in systematics, ecology, phylogenetics, population genetics, conservation biology, ecophysiology, etc. – any field that would take advantage of, and contribute to, the herbaria’s physical collections and bioinformatics efforts.

The successful candidate will demonstrate excellence, originality and productivity in research; excellence in teaching and mentoring; potential for herbaria leadership and administration, and a strong commitment to advancing diversity, equity, inclusion and belonging through their work as member of the IB and UJH faculties and the campus community. We are interested in candidates from a variety of career stages and backgrounds. This may include senior assistant professors at near-tenure; tenured professors at any career stage; and researchers or curators who hold positions commensurate with a near-tenure or tenured professor at non-tenure granting institutions, such as free-standing museums, research botanical gardens or international universities. Consideration will be given to candidates’ career stage during the review process. Rank and step for the successful candidate will be determined at appointment. For information about potential relocation to Berkeley, or career needs of accompanying partners and spouses, please visit: <http://ofew.berkeley.edu/new-faculty> .

Integrative Biology: <https://ib.berkeley.edu/>  
The University and Jepson Herbaria: <https://ucjeps.berkeley.edu/>  
**QUALIFICATIONS** Basic qualifications (required at time of application) PhD degree (or equivalent international degree).

Additional qualifications (required at time of start) Minimum 5 years prior experience as an independent researcher (not including PhD or postdoctoral work) and at least 3 years prior experience teaching in a higher education environment

Preferred qualifications Demonstrated commitment to collection-based comparative research; herbaria growth, development, fundraising, and administration

**APPLICATION REQUIREMENTS BY LEVEL ASSISTANT PROFESSOR (TENURE TRACK)** Position title: Assistant Professor Plant Evolutionary Biology/Director of the University and Jepson Herbaria

Individuals should submit their application at this level if they meet one of the following conditions: current “senior” assistant professor (near tenure); position equiv-

alent to “senior” assistant professor (e.g. at an international university, or as a researcher or curator from a non-tenure granting institution). Please note that this level determination is only for application review purposes, not the ultimate appointment level of the finalist.

Document requirements Curriculum Vitae - Your most recently updated C.V.

Cover Letter - Please provide a summary of how your accomplishments in

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## UCalifornia LosAngeles EvolutionaryBiology

Tenure Track Faculty Position: Assistant Professor -  
Institute for Society and Genetics

University of California Los Angeles

Requisition Number: JPF06853

The UCLA Institute for Society and Genetics (ISG) invites applications for a social scientist, humanist, legal, or policy scholar with an innovative research program in the area of public engagement with biology and biotechnology. Our conception of public engagement is broad, running the gamut from law, policy, and governance to science communication, public understanding, and participation. We are particularly interested in scholars working in international or comparative modes and/or who creatively engage issues of equity, diversity, and inclusion through their scholarship and teaching. We are seeking to fill a tenure-track position at the Assistant Professor rank to begin in Fall of 2022.

The Institute for Society and Genetics is housed within the College of Letters and Science, in the Division of Life Sciences at UCLA. Its faculty consists of social scientists, biological scientists and humanities scholars focused on innovative, critical research questions that intersect biology and society. Institute faculty members are generally cross-appointed with another department on campus, and develop research programs that transcend traditional disciplinary lines. Current domains of

expertise within ISG include: evolutionary biology, gene-environment interaction, metabolism, big data and biology, critical race theory, Indigenous sovereignty, history, philosophy, and sociology of the biomedical sciences, antimicrobial resistance, the carceral state, precision health, and bioethics. Beyond research, faculty teach in the Institute’s interdisciplinary undergraduate major (Human Biology and Society B.S. and B.A.) and supervise post-doctoral scholars and other student researchers, and contribute to outreach and public symposia, workshops and other events.

ISG seeks to expand its research profile in the social, ethical, philosophical, historical, or legal/policy-oriented analysis of biology, biotechnology, and biomedicine. Specific disciplinary field is open, but candidates must demonstrate training and research expertise in social science, the humanities, or law. Preference will be given to candidates who complement current expertise of the ISG faculty (see<https://socgen.ucla.edu/faculty/#.core-faculty>) and who demonstrate serious engagement with scientific or technical work or potential for collaboration with scientists and engineers. Successful candidates must demonstrate a commitment to teaching and mentoring students from underrepresented and underserved populations, or demonstrate an interest in campus-wide or departmental programs that provide research and professional development opportunities for a diverse student body. We particularly encourage applications from women and individuals from ethnicities and identities historically excluded in some institutions of higher education.

Candidates must hold a Ph.D. or J.D. by the time of appointment. Applicants should submit a cover letter, CV with publication list, a research statement, a statement of teaching, a statement of contributions to diversity, equity, and inclusion, and contact information of three potential letter writers. Candidates may be asked to supply articles or dissertation chapters at a later stage. Review of applications will begin on October 22, 2021 and continue until the position is filled. All applications and application materials must be submitted online via UCLA’s Academic Recruitment Online at the following URL:<https://apptrkr.com/2484257>. Inquiries may be addressed to the Search Committee Chair at <mailto:jwlynx@ucla.edu> or the ISG Director at <mailto:apanofsky@ucla.edu>.

More information about this recruitment: <http://socgen.ucla.edu/opportunities/> . To apply, please visit:<https://apptrkr.com/2484257> The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national



origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy, see: UC Nondiscrimination & Affirmative Action Policy,

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy, see: UC Nondiscrimination & Affirmative Action

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## UConnecticut EcolEvolutionaryBiology

### INTRODUCTION

The Department of Ecology and Evolutionary Biology (EEB) of the University of Connecticut invites applications for a non-tenure Assistant Professor in Residence appointment at the Stamford campus, beginning January 2022. Teaching responsibilities may include introductory biology courses for majors (Bio 1107 and 1108) and non-majors (Bio 1102), and other undergraduate courses (e.g., Global Change Ecology-EEB 2100E and Evolutionary Biology-EEB 2245W) consistent with the successful candidate's interests and qualifications. The normal teaching load for this position is seven three-credit courses per year or the equivalent. Other responsibilities include undergraduate advising and some service to the Campus, Department, or University. Candidates are not expected to maintain an active research program.

UConn Stamford is an urban campus at the center of one of Fairfield County's robust business communities, just 45 minutes from New York, which gives students ample opportunities for internships and careers. The campus serves 3,000 undergraduate and graduate students, including many first-generation college students. It offers 14 undergraduate majors, including business administration, digital media and design, computer science, and history. The campus's small size makes it

attractive to students and instructors who prefer the one-on-one interaction, the small class sizes, and the personalized attention. UConn Stamford prides itself on its collegial environment, interdisciplinary collaboration, and integral role in the Greater Stamford community.

Founded in 1881, UConn is a Land Grant and Sea Grant institution and member of the Space Grant Consortium. It is the state's flagship institution of higher education and includes a main campus in Storrs, CT, four regional campuses throughout the state, and 13 Schools and Colleges, including a Law School in Hartford, and Medical and Dental Schools at the UConn Health campus in Farmington. The University has approximately 10,000 faculty and staff and 32,000 students, including nearly 24,000 undergraduates and over 8,000 graduate and professional students. UConn is a Carnegie Foundation R1 (highest research activity) institution, among the top 25 public universities in the nation. Through research, teaching, service, and outreach, UConn embraces diversity and cultivates leadership, integrity, and engaged citizenship in its students, faculty, staff, and alumni. UConn promotes the health and well-being of citizens by enhancing the social, economic, cultural, and natural environments of the state and beyond. The University serves as a beacon of academic and research excellence as well as a center for innovation and social service to communities. UConn is a leader in many scholarly, research, and innovation areas. Today, the path forward includes exciting opportunities and notable challenges. Record numbers of undergraduate applications and support for student success have enabled the University to become extraordinarily selective.

### MINIMUM QUALIFICATIONS

Ph.D. in Biology or a related discipline by the start date of employment. Strong commitment to high-quality undergraduate education. The ability to contribute through teaching and/or public engagement to the diversity of the College

### PREFERRED QUALIFICATIONS

Experience in higher education teaching, flipped courses, distance learning, and laboratory courses. Track record of developing and implementing inclusive, evidence-based teaching practices, technology-assisted teaching, and experiential learning. Prior experience with course and curriculum development. Demonstrated ability to work collaboratively in a co-teaching environment.

### APPOINTMENT TERMS

This is a full-time, nine-month, non-tenure track at the Stamford campus. In-residence positions are one-year appointments, but may be renewed annually, and can lead to multi-year contracts as well as promotion to

Associate and Professor (in Residence). Salary will be commensurate with background, qualifications, and experience.

#### TERMS AND CONDITIONS OF EMPLOYMENT

Employment at the University of Connecticut is contingent upon the successful candidate's compliance with the University's Mandatory Workforce COVID-19 Vaccination Policy. This Policy states that all workforce members are required to have or obtain a Covid-19 vaccination as a term and condition of employment at UConn, unless an exemption or deferral has been approved.

Employment of the successful candidate is contingent upon the successful completion of a pre-employment criminal background check.

#### TO APPLY

Please apply online to Academic Jobs Online <https://academicjobsonline.org/ajo/jobs/19644> and submit the following application materials: - A cover letter; - Curriculum vitae; - Teaching statement (including teaching philosophy, teaching experience, commitment to effective learning, concepts for new course development, etc.);

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## UFlorida MolecularEcologyEvolution

The department of Entomology & Nematology at University of Florida in Gainesville, FL is searching for a tenure-track Assistant Professor of Molecular Ecology (80% research, 20% teaching).

The candidate will develop an internationally recognized and extramurally funded program in molecular ecology of arthropods or nematodes. This is a broad search, but programs applying a modern molecular ecology perspective to themes such as population or landscape genetics, biogeography, species interactions, or molecular evolution may be of interest. Research anywhere on the spectrum from addressing fundamental questions in ecological systems to applied work related to agriculture, natural resources conservation, or human and animal health is encouraged.

The successful candidate will participate actively in scholarly activities related to instruction, such as teaching undergraduate and graduate courses, chairing and serving on graduate committees, supervising undergraduate and graduate research and creative work, publishing results with graduate students and postdocs, participating in curriculum revision and enhancement, and producing learning tools. Faculty are encouraged to support and participate in the CALS Honors Program, distance education, and international education. Courses are likely to include a specialty graduate course in molecular ecology of arthropods and nematodes every other year, and in alternate years, either a Course Undergraduate Research Experience (CURE) course in the incumbent's area of expertise that emphasizes both hands-on research and quantitative skills, or a graduate-level course that emphasizes current quantitative and computational skills as broadly applied to Entomology & Nematology.

More information can be found in our full-length job ad with instructions for application (<https://facultyjobs.hr.ufl.edu/posting/94317>), or by contacting Dan Hahn ([dahahn@ufl.edu](mailto:dahahn@ufl.edu)).

More information on our department can be found here (<https://entnemdept.ufl.edu/>). University of Florida is a top-tier public institution and Gainesville is a great place to live, you can learn more about the university and our town at these links (<https://www.ufl.edu/>, <https://www.cityofgainesville.org/>).

Daniel A. Hahn Professor Department of Entomology and Nematology University of Florida [dahahn@ufl.edu](mailto:dahahn@ufl.edu) <https://entnemdept.ufl.edu/people-directory/daniel-hahn/> "Hahn,Daniel Allen" <[dahahn@ufl.edu](mailto:dahahn@ufl.edu)>

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## UIIdaho EvolutionaryModeling

The University of Idaho is pleased to announce a Faculty Cluster Hire in Modeling and Data Science. We will add up to six faculty at the assistant or associate level. We are looking for outstanding researchers who use diverse modeling skills to address public health challenges along the continuum from pathogen dynamics at the human-wildlife interface, to emerging disease prediction and prevention, to rural health disparities. For further information or to apply, see <https://clusterhire.nkn.uidaho.edu/> Lisette LISETTE WAITS Distinguished Professor Department Head Fish and Wildlife Sciences College of Natural Resources [University of Idaho] President Na-

tional Association of University Fisheries and Wildlife Programs [A picture containing shirt Description automatically generated] lwaits@uidaho.edu 208-885-7823 875 Perimeter Drive MS1136 | Moscow ID 83844-1136

[www.uidaho.edu/cnr/faculty/waits](http://www.uidaho.edu/cnr/faculty/waits) “Waits, Lisette (lwaits@uidaho.edu)” <lwaits@uidaho.edu>

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## UKansas 2 Genomics

The KU Departments of Ecology and Evolutionary Biology and Molecular Biosciences are conducting two separate searches in genomics. The EEB department is searching for Evolutionary Genomics with a focus on non-traditional model systems. The Molecular Biosciences search is for broadly defined Genome Biology. We invite applications for these faculty positions as a tenure-track assistant professor in these areas.

As a premier international research university, the University of Kansas is committed to an open, diverse and inclusive learning and working environment that nurtures growth and development. KU holds steadfast in the belief that an array of values, interests, experiences, and intellectual and cultural viewpoints enrich learning and our workplace. As such, applications from members of underrepresented groups in higher education are highly encouraged.

The University of Kansas is a member of the prestigious Association of American Universities. KU is a major educational and research institution located in Lawrence, a vibrant, thriving community of more than 90,000 close to Kansas City and the KU Medical Center. The faculty in both departments have comprehensive and diverse research efforts that enable innovative and cross-disciplinary approaches. As part of the University's commitment to advancing the biological sciences, these positions will be augmented by two additional new faculty positions (Immunology and Infectious Disease) available in the Department of Molecular Biosciences (<https://molecularbiosciences.ku.edu/>). Candidates will have access to resources associated with the KU Center for Genomics as well as several other core facilities.

Applicants must have a Ph.D. or equivalent degree in relevant field and post-doctoral research experience. Applicants should demonstrate the potential to establish an independent, externally-funded research program, as evidenced by research products including preprints and publications, and a statement outlining research successes and future goals. As excellence in inclusive

education and mentoring is a priority for our academic scientists, applicants should convey approaches and interests in these areas.

For complete announcement and to apply online, go to: EEB: <https://employment.ku.edu/academic/20324BR> Molecular Biosciences: <https://employment.ku.edu/academic/20321BR>. A complete online application includes the following materials: a) cover letter, b) curriculum vita, c) a statement of current and future research interests, d) a statement of teaching interests and philosophy, e) a statement describing why diversity, equity and inclusion are important to your research and efforts you have taken or will take to improve participation, inclusion and retention of individuals from underrepresented groups, and f) the names and contact information for at least three professional references. In addition to the materials above, learning about each applicant's contribution and engagement in areas of diversity is an important part of KU's mission. As such, applicants will be asked a to describe their views and efforts in diversity, equity, inclusion and belonging.

First Review of applications will begin November 8 (for EEB) and November 15 (for MB) and will continue until the position is filled. Position inquiries can be directed to: EEB: Pauly Cartwright (pcart@ku.edu) Molecular Biosciences: Rob Unckless (unckless@ku.edu).

unckless@ku.edu

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## UKentucky 2 Evolutionary Neuroscience

As part of a continuing campaign to grow and enhance the Department of Biology at the University of Kentucky (<https://bio.as.uky.edu/>) in Lexington, KY, we seek to hire two tenure-track Assistant Professors. We aim to expand research in the following areas: (1) neurobiology and (2) biology of environmental change. We are also interested in areas of biology that enhance or complement our department's research portfolio. We welcome applicants seeking to build research programs that use any combination of empirical, computational, and theoretical approaches. Moreover, we encourage applications from individuals who will contribute to our efforts to build a diverse and inclusive department.

The Department of Biology is a highly collaborative environment with strengths in evolutionary genetics and genomics, phylogenetics and macroecology, evolutionary and behavioral ecology, neuroendocrinology

and neurophysiology, biological clocks and sleep, and regenerative, developmental and stem cell biology. Biology faculty and trainee research use a diverse array of biological systems (e.g., insects, lampreys, zebrafish, birds, salamanders, rodents, primates, microbes, planaria, snakes, and vascular and non-vascular plants) and mathematical and computational tools. Members of the department collaborate with life science faculty in the Colleges of Medicine, Pharmacy, Engineering, Agriculture, and Arts & Sciences, the Markey Cancer Center, the Sanders Brown Center on Aging, and the Center for Clinical and Translational Science.

Interested applicants should apply online at: <https://ukjobs.uky.edu/postings/351530>. Applicants for both positions must have a Ph.D. or equivalent degree with postdoctoral experience (minimum 6 months) demonstrating excellence in their field. Evidence of an ability to obtain extramural grant support and/or some teaching experience is encouraged. Responsibilities for the successful candidates include: (1) establishment of an independent research program that is supported by awards from extramural agencies; (2) contribution to the teaching mission of the undergraduate program; (3) teaching and mentoring of graduate students and postdoctoral fellows; and (4) service for the department, university, and profession. Competitive start-up funds and renovated laboratory space will be provided.

Applicants should submit the following: 1) cover letter, 2) curriculum vitae, 3) description of the prospective research program (2 to 3 pages; upload as Specific Request 1), 4) one-page description of teaching interests (upload as Specific Request 2), and 5) statement on inclusivity (upload as Specific Request 3). As a college and university, we are strongly committed to creating an inclusive and effective teaching, learning, and working environment for all. In one to two pages, applicants should reflect on their commitments, approaches, and insights related to inclusion, diversity, and equity. In addition, please provide the names and contact information for three references when prompted in the academic profile. This information may be utilized to solicit recommendation letters from your references within the employment system.

Questions about the department and/or these searches should be addressed to Dr. David Weisrock, Chair, Department of Biology, University of Kentucky, email: [david.weisrock@uky.edu](mailto:david.weisrock@uky.edu).

Review of applications will begin immediately and continue until the position is filled. Applications received before October 15, 2021 are assured full consideration.

– Jeremy Van Cleve

Associate Professor Department of Biology University of Kentucky E-mail: [jvanclave@uky.edu](mailto:jvanclave@uky.edu) Webpage: <http://vanclave.theoretical.bio> Phone: (859) 218-3020

“[jvanclave@uky.edu](mailto:jvanclave@uky.edu)” <[jvanclave@uky.edu](mailto:jvanclave@uky.edu)>

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## UMemphis Evolutionary Neuroethology

Assistant Professor (tenure track): Neuroethology

University of Memphis - Department of Biological Sciences

The Department of Biological Sciences at the University of Memphis invites applications at the tenure-track Assistant Professor level in neuroethology. We define neuroethology broadly, and candidates who investigate the neural bases of animal behavior in whole organisms with a strong focus on the natural ecological or evolutionary context of these behaviors are encouraged to apply. We welcome researchers who combine field and lab-based organismal approaches. The successful candidate is expected to develop a research program that builds upon and complements existing strengths in the department, including physiology & behavior, ecology, biodiversity science and education, data science, genetics, and genomics. In addition to research, duties will also include teaching and supervision of students at the undergraduate, M.S., and Ph.D. levels, with instruction in the Department of Biological Sciences. The Department of Biological Sciences promotes a commitment to diversity, equity, and inclusion as part of its core values, and we strive to maintain a forum where all voices are heard. Thus, we seek to recruit and retain the most qualified people from a diverse pool of applicants. Moreover, our department is committed to supporting the work-life balance of its faculty, staff, and students.

The available position is in the Department of Biological Sciences, which currently consists of over 30 research or teaching faculty members working in diverse subdisciplines of biology (see: <https://www.memphis.edu/biology>). Numerous University of Memphis research centers and facilities such as the Center for Biodiversity Research, Data Science Research Cluster, High-Performance Computing Facility, Integrated Microscopy Center, and the Meeman Biological Station, contribute a host of opportunities for innovative research and collaboration. With an exceptionally collaborative and supportive faculty, Biological Sciences is one of the largest

departments at the University of Memphis and hosts research programs and curricula covering all major biological subdisciplines. In addition to a Ph.D. program, B.S. and M.S. programs engage close to 1100 students.

Candidates must have a Ph.D. in a relevant discipline from an accredited institution. We seek candidates with postdoctoral training, a record of peer-reviewed publication and scholarly accomplishments commensurate with experience, and evidence of funding potential. The successful candidate will develop an extramurally funded research program that advances their field of study while training graduate (M.S. & Ph.D.) and undergraduate students. Teaching assignments will depend on the candidate's expertise and departmental needs. Faculty members are also expected to engage in service activities at the department, college, and university levels. Competitive salary and startup funds are available.

Applications must be submitted online at <https://workforum.memphis.edu/postings/28782> (position number 003242). To apply, candidates should upload (i) a cover letter, (ii) CV including contact information for three references (letters will be solicited for short-listed candidates), (iii) research statement (listed as "other document" in the application system), and (iv) teaching philosophy. Up to three representative publications may also be uploaded as a single pdf (optional). Review of applications will begin 10/08/2021, the closing date for application. Inquiries can be directed to E. Keith Bowers (search committee chair), Department of Biological Sciences, University of Memphis, Memphis, TN 38152, USA (email: [ekbowers@memphis.edu](mailto:ekbowers@memphis.edu)).

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

Emerson Keith Bowers, Ph.D. Assistant Professor & Station Director

Edward J. Meeman Biological Station Department of Biological Sciences

The University of Memphis 311 Ellington Hall Memphis, TN38152

901.678.3406 | [ekbowers.com](http://ekbowers.com)

"Emerson Keith Bowers (ekbowers)"  
<[ekbowers@memphis.edu](mailto:ekbowers@memphis.edu)>

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## UMichigan Paleontology

Faculty Position in Paleontology, University of Michigan

The Museum of Paleontology and the Department of Earth and Environmental Sciences at the University of Michigan are searching for a full-time tenure-track faculty candidate in the field of Paleontology at the assistant professor/assistant curator level. This is a university year appointment with an expected start date of August 29, 2022. The Museum of Paleontology has recently relocated its internationally significant collections of plant, invertebrate, and vertebrate fossils to the new Research Museums Center. Paleontology faculty labs and offices are in the newly completed Biological Sciences Building, which houses biology units (Ecology and Evolutionary Biology; Molecular, Cellular, and Developmental Biology) and the Museum of Natural History.

We seek applicants who have broad research and teaching interests within developing areas of evolutionary or environmental paleontology. The Museum and Department invite applicants in fields including, but not restricted to: macroevolution, interactions between developmental biology and evolution, extinction dynamics, paleoecology, organismal paleobiology, and biotic responses to global change. We will consider outstanding applicants in any of these areas, and are particularly interested in candidates whose work bridges subdisciplines within paleontology and Earth sciences. Taxonomic expertise is expected, with preference for areas that add new curatorial strength.

The successful candidate is expected to establish an externally funded research program and contribute to excellence in undergraduate and graduate teaching. Applicants must have a Ph.D. at the time of appointment and should submit: (1) cover letter; (2) CV; (3) statement of current and future research plans; (4) statement of teaching philosophy and experience; (5) evidence of teaching excellence (e.g., evaluations, awards), if available; (6) a statement of activities contributing to diversity, equity, and inclusion in academia; (7) up to four publications; and (8) names and contact information for at least four references.

Information about the Museum and Department can be found at [www.lsa.umich.edu/paleontology](http://www.lsa.umich.edu/paleontology) and [www.lsa.umich.edu/earth](http://www.lsa.umich.edu/earth). To apply please go to <https://sites.lsa.umich.edu/faculty-position-paleo/> complete

the online form, and upload the required application documents as a single PDF file. If you have any questions or comments, please send an email message to [mfriedm@umich.edu](mailto:mfriedm@umich.edu).

The application deadline is October 1, 2021 for full consideration, but applications will continue to be reviewed until the position is filled. The University of Michigan is supportive of the needs of dual career couples and is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

Cindy Stauch Museum Business Administrator University of Michigan Museum Paleontology 2264 Biological Science Building (BSB) 1105 N. University Ave. Ann Arbor, MI 48109-1085 Phone: 734-647-2101 Fax: 734-936-1380

Cindy Stauch <[cstauch@umich.edu](mailto:cstauch@umich.edu)>

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## UNacionalAutonomaDeMexico Mycology

Job Announcement Two Faculty Positions in Mycology Institute of Biology, Universidad Nacional Autonoma de Mexico

The Universidad Nacional Autonoma de Mexico (UNAM, [www.unam.mx](http://www.unam.mx)) is a preeminent public higher-education center in Mexico, and is among the highest-ranking Spanish-speaking, and Latin American universities. UNAM's Institute of Biology is a research center in the main campus of UNAM in Mexico City, with the mission of developing scientific research about the origin and maintenance, interactions, distribution, current composition, use and conservation of biological diversity. It houses the National Biological Collections of Mexico, including ten zoological collections, and the National Herbarium. Its faculty include over 170 scientists and academic technicians who conduct research, teach and supervise undergraduate and graduate-level students, and participate in outreach activities, all to contribute to the understanding and conservation of biological diversity to improve scientific advancement and the well-being of society. The Institute of Biology consists of two academic Departments (Zoology and Botany), a Botanical Garden, and field research stations in the tropical rainforest in the state of Veracruz, and in the seasonally dry tropical forest in the state of Jalisco.

To fulfill its mission, the Institute of Biology seeks quali-

fied applicants for TWO tenure-track full-time positions as Associate Research Scientist (Investigador/a Asociado/a "C" de Tiempo Completo) in the field of mycology in the Department of Botany.

**POSITION 1. CANDIDATE'S PROFILE:** We seek a scientist to conduct research on Division Basidiomycota, with expertise in systematic biology (e.g., species discovery, description, phylogenetic inference), extending to the application of innovative theoretical concepts and methodological tools to investigate one or more processes associated with their evolution above the species level (e.g., morphological diversity, species richness, distribution), and with a strong experience of work and development of biological collections.

**POSITION 2. CANDIDATE'S PROFILE:** We seek a scientist to conduct research on macromycetes (Divisions Basidiomycota, Ascomycota including lichenized fungi) or 'Zygomycota', with expertise in systematic biology (e.g., species discovery, phylogenetic inference), extending to the application of innovative theoretical concepts and methodological tools to investigate one or more processes associated with their evolution above the species level (e.g., morphological diversity, species richness, distribution), and with a strong experience of work and development of biological collections.

**REQUIREMENTS:** - Doctorate or Ph.D. degree in the areas of mycology, systematics or evolution. - Knowledge and professional experience of at least 3 years in research in phylogenetic systematics and evolution of any group within Division Basidiomycota. - Experience using or developing biological collections. - Ability to teach and supervise undergraduate and graduate students from UNAM's School of Science and Graduate Programs, as well as to participate in outreach and institutional activities. - Develop her/his own line of independent research, including procurement of funds for research, and interaction and collaboration with other research groups. - Non-native speakers must be fluent in the Spanish language. - Because these positions are available through the Subprograma de Incorporacion de Jovenes Academicos de Carrera (SIJA) UNAM, aimed at incorporating early-career faculty, female applicants should be 39 years old or younger, and male applicants should be 37 years old or younger on the day of hire approved by the Consejo Tecnico de la Investigacion Cientifica (CTIC, Technical Council for Scientific Research).

**APPLICATION AND SUPPORTING DOCUMENTS:** To apply, please send the following documents to [sacademica@ib.unam.mx](mailto:sacademica@ib.unam.mx), with copy (Cc:) to [secacad\\_vl@ib.unam.mx](mailto:secacad_vl@ib.unam.mx) 1. Curriculum vitae (CV), including academic degrees, publication history and experience

in Basidiomycota systematics. 2. Description of research conducted during at least the past 3 years (maximum 2 pages). 3. Research proposal, in the context of a longer research plan, to be developed in the first year of work, focused on the systematics and evolution of any group of Basidiomycota, preferably with a focus on Mexican groups (maximum 10 pages). 4. Cover letter addressed to the Director, Prof. Susana Magallon, stating the motives and interest in developing an academic career at the Institute of Biology, UNAM (maximum 2 pages) 5. Names and contact information of at least two persons who can provide academic references.

Applications, accompanied by supporting documents, will be received from September 13th, 2021 until the close of this call, which will be on October 22nd, 2021 at 6:00 p.m. (Mexico City time). Short-listed

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## UppsalaU PlantEvolution

The department of Ecology and Genetics at Uppsala University, Sweden, is seeking to hire a tenured Associate Professor in Plant Ecology!

Uppsala University is a comprehensive research-intensive university with a strong international standing. The ideal candidate conducts research related to plant population and community ecology and complements current research at the program, which ranges from evolutionary genetics to community ecology ([www.ieg.uu.se](http://www.ieg.uu.se)). Teaching at the bachelor and/or Master level is also included in the position.

This is full-time permanent position and promotion to full professor is possible.

Please submit your application by 30 September 2021 (UFV-PA 2021/2238).

For more information and to upload your application, please see <http://uu.varbi.com/what:job/jobID:397576/>. You are also very welcome to contact Prof. Sophie Karrenberg ([sophie.karrenberg@ebc.uu.se](mailto:sophie.karrenberg@ebc.uu.se)) with questions on the position.

Prof. Sophie Karrenberg Head of program for plant ecology and evolution

Evolutionary Biology Center (EBC) Dept. of Ecology and Genetics

Norbyvägen 18 D 752 36 Uppsala Sweden

När du har kontakt med oss på Uppsala universitet med e-post innebär det att vi behandlar dina personuppgifter. För att läsa mer om hur vi gör det kan du läsa här: <http://www.uu.se/-om-uu/dataskydd-personuppgifter/> E-mailing Uppsala University means that we will process your personal data. For more information on how this is performed, please read here: <http://www.uu.se/en/-about-uu/data-protection-policy> Sophie Karrenberg <[sophie.karrenberg@ebc.uu.se](mailto:sophie.karrenberg@ebc.uu.se)>

## USouthCarolina LocalBiodiversity

Assistant Professor of Experimental Community Ecology  
University of South Carolina - Department of Biological Sciences

The Department of Biological Sciences invites applications for a tenure-track faculty position in Experimental Community Ecology at the rank of Assistant Professor to begin August 16, 2022. We seek to hire an experimental community ecologist studying mechanisms governing biodiversity at the local scale. Candidates with expertise in any system are encouraged to apply, including those whose work further enhances existing departmental strengths in evolutionary biology or marine coastal ecology. Faculty positions require a commitment to research, teaching, and service. Duties include developing a creative and vibrant research program in experimental community ecology, teaching undergraduate and graduate courses, and mentoring undergraduate and graduate students.

Minimum qualifications include a PhD in ecology or a related discipline and at least one year of postdoctoral research experience by the start date of employment; evidence of established scholarship, including a strong record of publishing in peer-reviewed journals; and demonstrated teaching skills as instructor of record or graduate teaching assistant.

The Department of Biological Sciences ([www.biol.sc.edu](http://www.biol.sc.edu)) is a multidisciplinary unit of approximately 1,800 Undergraduate Students, 65 Graduate Students, and 50 Faculty representing a broad range of research areas, including Ecology and Evolution, Molecular and Cellular Biology, Genetics, Microbiology, Biochemistry, Plant

Science, and Neurobiology. The Department has excellent core technical support facilities and strong links with the Belle W. Baruch Institute for Marine and Coastal Sciences ([www.baruch.sc.edu](http://www.baruch.sc.edu)) and the School of the Earth, Ocean, and Environment ([seoe.sc.edu](http://seoe.sc.edu)) in the College of Arts and Sciences. The Department is located on the University of South Carolina's main campus in Columbia. The Carnegie Foundation for the Advancement of Teaching has designated the University an institution with "very high research activity." The University has over 35,000 students on the main campus, more than 300 academic programs, and the top Honors College in the United States. Columbia is the center of an increasingly sophisticated metropolitan area with a population of over 800,000.

To apply, applicants must fill out an online application at the UofSC employment website at <http://uscjobs.sc.edu/postings/105836>. Candidates should be prepared to upload a cover letter, a CV, a statement of research interests and plans, a statement of teaching interests, experience, and strategies, and contact information, including telephone number and email address, for three references. Deadline to apply is October 18, 2021. Questions may be directed to Dr. Jeff Dudycha, Search Committee Chair, at [dudycha \[at\] biol.sc.edu](mailto:dudycha@biol.sc.edu).

The University of South Carolina is an affirmative action, equal opportunity employer. Minorities and women are encouraged to apply. The University of South Carolina does not discriminate in educational or employment opportunities on the basis of race, sex, gender, age, color, religion, national origin, disability, sexual orientation, genetics, protected veteran status, pregnancy, childbirth or related medical conditions.

Jeffrey L. Dudycha Professor Dept. of Biological Sciences University of South Carolina Columbia, SC 29208 [dudycha \[at\] biol.sc.edu](mailto:dudycha@biol.sc.edu) <http://www.tangledbank.org>  
tw: @JLDudycha

[dudycha@biol.sc.edu](mailto:dudycha@biol.sc.edu)

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**USouthCarolina**  
**RegenerationEvoDevo**

This job ad doesn't specifically mention evolution, but I know members of the search committee would like to receive applications from evolutionary biologists for the position, since they would "complement the research strengths existing in our department."

Tenure-Track Assistant Professor or Tenured/Tenure-Track Associate Professor Faculty in Regenerative Biology UNIVERSITY OF SOUTH CAROLINA

The Department of Biological Sciences at the University of South Carolina (UofSC) invites applications for a tenure-track Assistant Professor OR tenured/tenure-track Associate Professor position in any area of Regenerative Biology. The successful candidate will be expected to establish and maintain an extramurally funded research program that integrates molecular, cellular, and organismal scales of biological organization. We are especially interested in applicants who will stimulate exciting new collaborations and complement the research strengths existing in our department. Applicants using non-traditional model organisms are encouraged to apply.

The successful candidate will have a Ph.D. in Biology or related discipline and post-doctoral research experience in a relevant area of regenerative biology that will intersect with and complement our departmental interests in stem cell and developmental biology, biology of cellular stress, cancer biology, neurobiology, systems biology, evolution, and disease mechanisms. The broad diversity of our department provides opportunities to interact with multiple research groups within Biological Sciences as well as in collaborative initiatives among multiple departments across the UofSC campus. The successful candidate will be responsible for teaching courses relevant to their area of expertise, as well as mentoring research training for undergraduate and graduate students. Additional information on the position and the Department of Biological Sciences can be found at <http://www.biol.sc.edu/>. Our department is committed to building a culturally diverse faculty, and we strongly encourage minorities, individuals with disabilities, and other members of underrepresented groups in science to apply. Review of applications will begin November 1, 2021. To ensure full consideration, applications must be received by November 30, 2021. The review process will continue until the position is filled. All applicants must fill out an online application at the UofSC employment website at: <http://uscjobs.sc.edu/postings/105842>. Applications should include a complete curriculum vita, a statement of research accomplishments and goals (3 pages), a statement of teaching philosophy and interests (1 page), and the names, email addresses, and telephone numbers of at least three references. Questions may be directed to Dr. Marj Peña, Search Committee Chair at [mpeña@biol.sc.edu](mailto:mpeña@biol.sc.edu) <<mailto:mpeña@biol.sc.edu>> (put "Regenerative Biology Search" in the subject title).

The Department of Biological Sciences is a multidisciplinary unit of approximately 1,800 Undergraduates, 60 Graduate Students and 36 Faculty from various re-



search areas including Biochemistry, Cell and Molecular Biology, Genetics, Ecology and Evolution, Cancer Biology, Developmental Biology, Neurobiology, and Plant Sciences. The Department has ready access to strong core technical support facilities and is complemented by strong research programs in other science departments, the UofSC School of Medicine, the Arnold School of Public Health, the South Carolina School of Pharmacy as well as the Center for Targeted Therapeutics, the Belle W. Baruch Institute for Marine and Coastal Sciences, the UofSC Environment and Sustainability Program, and the UofSC Neuroscience Community.

The UofSC system is comprised of the state's flagship university in Columbia (founded in 1801 and currently # 54 in the "Top Public Schools" according to U.S. News and World Report), three regional comprehensive universities (UofSC Aiken, UofSC Beaufort and UofSC Upstate), and Palmetto College consisting of four two-year campuses (UofSC Lancaster, UofSC Salkehatchie, UofSC Sumter, UofSC Union and Fort Jackson/Extended University). Together, the UofSC System institutions offer more than 450 degree programs on campus and online and are uniquely positioned to meet the state's educational, cultural, health and research needs. Our diverse engaged faculty and staff enjoy a dynamic and intellectually stimulating work environment.

Columbia, SC enjoys more than 300 days of sunshine annually and has ready access to pristine beaches, lakes, rivers, and mountains. The city hosts historical and cultural attractions, festivals, performing arts and sporting events, parks and outdoor recreation including Congaree National Park and 50,000-acre Lake Murray!

The University of South Carolina is an affirmative action, equal



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## UTennessee DiseaseEvolution

Disease Ecologist, Assistant Professor, Fall 2022 The University of Tennessee - Knoxville: Knoxville Academic Units: College of Arts and Sciences: Ecology & Evolutionary Biology

The Department of Ecology & Evolutionary Biology

seeks a tenure-track faculty member at the Assistant Professor level in the field of Disease Ecology. We seek applicants whose research focuses on empirical questions relating to pathogen/parasite ecology, host-pathogen dynamics, or the influences of infections on host behavior and/or ecology. Applicants should complement existing strengths in epidemiology, mathematical modeling, ecology and evolution, or global change biology. The successful candidate will build an interdisciplinary research program focused on questions of disease ecology in natural and/or managed populations (including in scope the ecology of diseases of human and microbial populations). We welcome applicants who can leverage the wealth of assembled expertise in related fields across the UT system, and who can collaborate with some of the many health- and disease-focused researchers at the National Institute for Mathematical and Biological Synthesis [NIMBioS], the UT One Health Initiative [UT OHI], and the nearby Oak Ridge National Laboratory. Applicants may also be able to exploit our nearby field resources (including Great Smoky Mountains National Park and national forests and natural areas), extensive biodiversity collections, and our advanced computational and sequencing facilities.

**Qualifications** We are committed to recruiting and retaining a diverse faculty and particularly invite candidates who will strengthen our diversity and educational mission of inquiry-based teaching excellence. Expectations for a successful candidate include an exceptional record of scientific accomplishment, with evidence of an ability to develop a productive, externally-funded research program, a demonstrated ability to mentor students from diverse backgrounds, excellent communication skills and application of effective and inclusive teaching strategies.

**Application Instructions** The Knoxville campus of the University of Tennessee is seeking candidates who have the ability to contribute in meaningful ways to the diversity and intercultural goals of the University. Interested applicants should submit via Interfolio (<http://apply.interfolio.com/91556>) a cover letter, curriculum vitae, two-page statement of research accomplishment and plans, two-page description of teaching experiences and interests, and the names and contact information of at least three individuals who could write letters of reference. Direct questions to DiseaseEcology-Search@utk.edu. Applications will be reviewed beginning Oct. 15, 2021, with a position start date of August 2022.

**Equal Employment Opportunity Statement** All qualified applicants will receive equal consideration for employment and admission without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or men-

tal disability, genetic information, veteran status, and parental status, or any other characteristic protected by federal or state law. In accordance with the requirements of Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990, the University of Tennessee affirmatively states that it does not discriminate on the basis of race, sex, or disability in its education programs and activities, and this policy extends to employment by the university. Inquiries and charges of violation of Title VI (race, color, and national origin), Title IX (sex), Section 504 (disability), the ADA (disability), the Age Discrimination in Employment Act (age), sexual orientation, or veteran status should be directed to the Office of Equity and Diversity, 1840 Melrose Avenue, Knoxville, TN 37996-3560, telephone 865-974-2498. Requests for accommodation of a disability should be directed to the ADA Coordinator at the Office of Equity and Diversity.

“Anderson, Marva L” <mander16@utk.edu>

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## UTexas ElPaso BehaviouralEvolution

The University of Texas at El Paso

College of Science

Department of Biological Sciences

Assistant Professor - Behavioral Ecologist

**POSITION DESCRIPTION:** The Department of Biological Sciences at the University of Texas at El Paso (UTEP) invites applications for a tenure-track assistant professor position for a Behavioral Ecologist. We are seeking highly collaborative candidates with expertise in the study of behavior of any non-model multi-cellular organism; although we encourage those applicants with expertise in entomology, mammalogy, and other non-aquatic vertebrates.

The anticipated appointment date is fall 2022. The successful candidate is expected to (1) establish an extramurally funded research program; (2) teach and mentor undergraduate, masters, and doctoral students; and (3) have a strong potential for collaboration across ecology and evolutionary biology (EEB). Finally, UTEP is committed to expanding diversity among its faculty and staff, and strongly encourages candidates to apply who will enrich UTEP’s academic and culturally inclusive environment.

**ABOUT THE DEPARTMENT:** The Department of Biological Sciences is among the most productive departments within UTEP. In addition to having doctoral programs in EEB and Bioscience, the Department of Biological Sciences contributes to interdisciplinary programs in Environmental Science and Engineering, Bioinformatics, and Computational Science. Core facilities in the NIH-sponsored Border Biomedical Research Center include capacities for DNA Next-Gen sequencing, bioinformatics, and statistics. In addition, UTEP’s internationally recognized Biodiversity Collections (<https://www.utep.edu/biodiversity/>) house thousands of specimens, not only providing unique research and teaching opportunities, but the potential for candidates to take on important curatorial roles. Similarly, a new state-of-the-art insectarium and multiple vivaria are also available to researchers. Finally, the 40,000+ acre Indio Mountains Research Station provides unique research and teaching opportunities (<https://www.utep.edu/science/indio/>). More information is available at the Department of Biological Sciences website < <https://www.utep.edu/science/biology/> >.

**ABOUT UTEP:** The University of Texas at El Paso is America’s leading Hispanic-serving university. Located at the westernmost tip of Texas, where three states and two countries converge along the Rio Grande, UTEP is a public research university that transforms lives. Ninety-four percent of UTEP’s nearly 25,000 students are minorities, and many are the first in their families to go to college. At UTEP, students have access to 168 bachelor’s, master’s and doctoral degree programs in nine colleges and schools. UTEP is the only open-access, top tier Research University in America, yet its retention rates exceed those of selective institutions.

Located in the second-most educated city in Texas, UTEP is recognized as one of the best research universities in the country for connecting students with the community around them. It is one of only 28 institutions in the U.S. and three in Texas to hold both top tier research and community engagement distinctions from the Carnegie Foundation.

UTEP advances discovery of public value and positively impacts the health, culture, education and economy of the community it serves. With more than \$108 million in total annual research expenditures, the University is ranked among the top 5% of colleges and universities in research and fifth in Texas for federal research expenditures at public universities.

The University employs approximately 4,000 faculty, staff and students. It has one of the lowest out-of-pocket costs of any research university in the U.S., underscoring its commitment to offer an exceptional education at a

great value. Almost 25% of graduates from the poorest backgrounds reach the top income quintile, placing UTEP in the top 10 universities in America for social mobility.

**ABOUT EL PASO:** El Paso is a highly livable, bicultural community of almost 700,000 people with rich cultural heritage that offers affordable homes and attractive neighborhoods. It has been repeatedly named among the safest large U.S. cities. El Paso experiences more than 300 days of sunshine annually, and residents enjoy outdoor activities year-round.

**REQUIRED QUALIFICATIONS:** Applicants must have a Ph.D. or equivalent degree, postdoctoral research experience, and a strong record of research accomplishments.

**APPLICATION PROCEDURES:** Review of applications will begin immediately and will continue until the position is filled. Candidates should submit a letter of interest, curriculum vitae, statement of research interests, a brief description of teaching philosophy, a statement

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## UUtah PlantEvolution

University of Utah

Assistant Professor-School of Biological Sciences

The School of Biological Sciences at the University of Utah invites applications for two tenure-track faculty positions at the Assistant Professor level beginning as early as August 1, 2022. We encourage applications in the broad areas of plant physiology and plant ecology, and seek to hire one candidate in each of these main areas. We are particularly interested in candidates with overlapping strengths in any of the following areas with respect to plant ecology: community ecology, species interactions, stable isotope ecology, and global change ecology.

The new faculty member will be expected to develop a high impact research program, effectively support our teaching mission at the undergraduate and graduate levels, and contribute to a diverse and inclusive environment within the School and University. The University of Utah offers exceptional opportunities for research

collaboration across multiple departments. New faculty members have the opportunity to participate in a faculty mentoring program. The School of Biological Sciences values diversity and inclusion and believes they are essential to achieving excellence. Thus, we particularly encourage applications from candidates who have experience working with students from diverse backgrounds and possess a strong commitment to improving access to higher education for historically underrepresented groups. We seek to recruit and retain a diverse workforce and to offer students richly varied disciplines, perspectives and ways of knowing and learning. The successful candidate will be expected to work collaboratively with faculty and to mentor students from a wide range of disciplines, cultures and academic backgrounds. Salt Lake City is a stellar place to work and live, as it is adjacent to the Wasatch Mountains with world-class cultural and recreational opportunities.

Applicants should send the following, and adhere to the page limits for each section: (1) a cover letter that addresses your particular interest in the position and the University of Utah (one page), (2) a CV, (3) a description of your research accomplishments and independent research plans (two pages), (4) a description of your teaching experience and interests (one page), (5) a description of past and prospective contributions to advancing diversity, inclusion, and equitable access to education and how it complements ongoing efforts (<https://www.biology.utah.edu/equity-diversity-and-inclusion/>, one page), (6) up to three publications or preprints, and (7) contact information for at least three references. Applications will be accepted electronically in PDF format at <https://utah.peopleadmin.com/postings/121590> <https://utah.peopleadmin.com/postings/121590>. Our review of applications will begin on October 15, 2021.

The University of Utah values candidates who have experience working in settings with students, staff, faculty and patients from diverse backgrounds and possess a strong commitment to improving access to higher education, employment opportunities, and quality healthcare for historically underrepresented groups.

Individuals from historically underrepresented groups, such as minorities, women, qualified persons with disabilities and protected veterans are encouraged to apply. Veterans' preference is extended to qualified applicants, upon request and consistent with University policy and Utah state law. Upon request, reasonable accommodations in the application process will be provided to individuals with disabilities.

The University of Utah is an Affirmative Action/Equal Opportunity employer and does not discriminate based

upon race, ethnicity, color, religion, national origin, age, disability, sex, sexual orientation, gender, gender identity, gender expression, pregnancy, pregnancy-related conditions, genetic information, or protected veteran's status. The University does not discriminate on the basis of sex in the education program or activity that it operates, as required by Title IX and 34CFRpart 106. The requirement not to discriminate in education programs or activities extends to admission and employment. Inquiries about the application of Title IX and its regulations may be referred to the Title IX Coordinator, to the Department of Education, Office for Civil Rights, or both.

To request a reasonable accommodation for a disability or if you or someone you know has experienced discrimination or sexual misconduct including sexual harassment, you may contact the Director/Title IX Coordinator in the Office of Equal Opportunity and Affirmative Action:

Director/ Title IX Coordinator

Office of Equal Opportunity and Affirmative Action (OEO/AA)

135 Park Building

Salt Lake City, UT 84112

801-581-8365

o eo@utah.edu

Online reports may be submitted at [o eo.utah.edu](http://o eo.utah.edu)

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## VirginiaTech EvolutionaryEntomology

Candidates with a background in evolutionary biology that work on urban entomological pests will be considered.

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Virginia Tech's Department of Entomology seeks a faculty member in the area of Urban Entomology. The position is a nine-month, tenure-track appointment and

will be filled initially at the rank of Assistant or Associate Professor.

The recently-established Joseph R. and Mary W. Wilson Endowed Urban Entomology Professorship will provide immediate support to the faculty member's program. Once the faculty member is promoted to the rank of Professor, it is expected that the faculty member will be appointed as the Joseph R. and Mary W. Wilson Endowed Urban Entomology Professor. Responsibilities of this primary research position include a 70% research appointment and a 30% teaching appointment which may be adjusted to meet the research and instructional needs of the faculty member and department. This position will be based on the main campus of Virginia Tech, a Research I public land-grant university located in Blacksburg, VA, USA.

**Responsibilities:** The successful candidate for this position will be expected to develop a nationally and internationally recognized, extramurally funded research program focused on the discovery of new and innovative ways to manage urban pests. The applicant should possess expertise and resources that will synergize current research, teaching, and Extension strengths in the department. The ideal candidate will have the opportunity to strengthen their research program with Virginia Tech Institutes and Centers. The incumbent is expected to build research collaborations on urban and non-native invasive species affecting the human condition and could find opportunities for collaboration with the Fralin Life Science Institute. The influence of climate change-urbanized environments and their impact on urban pests would align with the Global Change Center. The incumbent could also collaborate at the intersection of engineering, sciences, and humanities through the Institute for Critical Technology and Applied Science.

The successful applicant is expected to develop a research program at the interface of science and society that addresses critical needs focused on sustainable management of urban pests as a result of urbanization, rapid environmental change, and/or biological invasions (e.g., non-native, invasive, or adaptive species; resistant strains). Specific research focus areas could include, but not limited to, understanding extant and emergent urban pest biology, management, behavior, ecology, evolution, population genetics, pathology, or chemical ecology. Further, research should contribute to the development of technologies that address challenges in monitoring and management of urban pests. The successful applicant will be expected to support the department's missions in research, scholarship, and teaching. This includes a strong commitment to the recruitment and mentoring of graduate students and serving on graduate student

committees. The incumbent will also be expected to develop a teaching program within their area of expertise that complements the mission of the Department of Entomology. The incumbent will support the mission of the land-grant university by participating in outreach and engaging local, state, and regional stakeholders. As the successful candidate's career advances, they are expected to contribute to Virginia Tech's reputation in global engagement. Participation in institutional and professional service activities that align with the candidate's strengths will also be expected.

**Required Qualifications** Applicants are required to hold a Ph.D. in entomology or a closely related field.

**Preferred Qualifications** Preference will be given to individuals with an established record of research accomplishments in urban entomology, a desire to address urban issues complicated through non-native invasions and a changing climate, a demonstrated ability to secure extramural funding, and publications in high-quality peer-reviewed journals. Furthermore, preference will also be given to individuals with documented teaching experience, demonstrate a clear understanding of inclusivity and diversity, and have a clear vision to grow their research portfolio complementing existing strengths and resources in the department.

Assistant OR Associate Professor, Urban Entomology

Apply now Job no: 517320 Work type: Teaching & Research Faculty Senior management: Agriculture & Life Sciences Department: Entomology Location: Blacksburg Area Categories: Agriculture / Life Science

<https://careers.pageuppeople.com/968/cw/en-us/-job/517320/assistant-or-associate-professor-urban-entomology> Dr. Margaret J. Couvillon, Assistant Prof. of Pollinator Biology & Ecology Department of Entomology, Virginia Tech Office phone: 540-231-5707

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**WesternConnecticutStateU**  
**PlantEvolution**

Western Connecticut State University's Macricostas School of Arts & Sciences is pleased to announce that

applications are being accepted for a tenure-track Assistant Professor in the Department of Biological & Environmental Sciences, in plant biology. This position will start with the Fall 2022 semester.

WCSU is committed to enhancing our diverse university community by actively encouraging people with disabilities, minorities, veterans, and women to apply. We take pride in our pluralistic community and continue to seek excellence through diversity and inclusion. The Macricostas School of Arts & Sciences is home to 13 departments, 21 undergraduate majors, and 5 graduate majors. The Department of Biological & Environmental Sciences offers a Bachelor of Arts degree in Biology and a Master of Science degree in Integrative Biological Diversity. Additional information may be found at <https://www.wcsu.edu/biology/>. The Department of Biological & Environmental Sciences is a collegial and supportive department that collaborates on research and teaching endeavors. The department is housed in a modern building with access to state-of-the-art equipment and technology. Resources available to faculty include dedicated research space, tissue culture equipment, animal facility, fluorescent microscopes, molecular equipment, environmental chambers, greenhouse, laundry facility, canoes, and a 33-acre nature preserve. WCSU is located in an urban setting in close proximity to open spaces, farms, and conservation areas, and is well-suited to service-learning opportunities and other creative partnerships. WCSU offers opportunities to support student and faculty research, conference attendance, and professional development.

**Position Summary:** The successful candidate will teach biology courses with topics including biodiversity, ecology, and conservation biology. The successful candidate will develop and grow the plant biology curriculum, teaching additional courses and mentoring research projects (undergraduate and graduate) in the candidate's area of expertise. The successful candidate will also conduct creative (research) activity, provide productive service to the department and university, and engage in professional activity and scholarship. The workload for all full-time faculty members is 12 credits per semester.

**Qualifications:** Candidates must have a Ph.D. or equivalent terminal degree in plant biology and post-doctoral research experience. Candidates must be qualified to teach undergraduate courses in general biology and conservation biology. Preference will be given to candidates who have teaching experience and whose teaching pedagogy encourages active learning and critical thinking. The candidate should also have experience mentoring students (undergraduate and graduate) in a plant biology research program. The specific sub-discipline

of plant biology expertise is open. Evidence that the candidate has the potential to continue to publish peer-reviewed literature is required.

WCSU is particularly interested in applicants who have experience working with students from different backgrounds and a demonstrated commitment to improving access to higher education for first-generation and underrepresented groups.

**Salary & Benefits:** The salary range is \$64,422 - \$85,896 and is commensurate upon candidates' experience. Western offers a comprehensive benefits package. Additional information on benefits can be found at [www.wcsu.edu/hr/benefits/](http://www.wcsu.edu/hr/benefits/). **Application Process:** Interested applicants must submit 1) a letter of application outlining interest and qualifications for the position; 2) a current curriculum vita; 3) a teaching statement describing your teaching philosophy, teaching experience, and plan for expanding the plant biology curriculum at WCSU; 4) a succinct research statement including specific examples of projects you plan to pursue at WCSU; and 5) the names and contact information for

at least three (3) professional references who can comment on the applicant's teaching, scholarship, and/or service/leadership. All application materials should be sent as a single PDF file to [facultyvitae@wcsu.edu](mailto:facultyvitae@wcsu.edu). In the Email Subject Line Reference Search #900-050. Applications must be received by Friday, October 15, 2021. Late applications will not be accepted.

State and Federal requirements expect that organizations with 100 or more employees invite applicants to self-identify gender and race. We kindly request all applicants to complete the Affirmative Action Data Questionnaire via the following link. <http://wcsu.edu/diversity/-affirmative-action-data-questionnaire/>. Any questions may be directed to Ms. Keisha Stokes in the WCSU Office of Diversity and Equity at [stokesk@wcsu.edu](mailto:stokesk@wcsu.edu). Completion of this data will

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### ASN-SSB-SSE-EvolutionMeetings AssocConferenceOrganizers

The Society for the Study of Evolution (SSE), on behalf of the Joint ASN/SSB/SSE council, seeks two members of one or more of our societies to help plan and run our annual scientific conference - the Evolution meetings (<https://www.evolutionmeetings.org>). The meetings are

coordinated by a Chief Meeting Officer (CMO), an academic who oversees all aspects of the meeting and who is responsible for final decisions about schedules, activities and venues, in consultation with a tri-society Joint Meeting Committee (JMC) and the larger ASN/SSB/SSE Joint Council. The CMO also acts as the principal liaison with a Professional Conference Organizer (PCO), whose responsibilities include executing the logistics of conference management, interactions with vendors and service providers, and helping identify and negotiate contracts with future meeting venues.

We are currently seeking two Associate CMOs who will

assist the CMO with organization, including interfacing with society councils and other stakeholders, producing the scientific program, and providing academic insight to help guide the work of the PCO. Duties will be divided between the Associate CMOs as determined by the CMO and the JMC, and in consultation with them. Associate CMOs will normally serve a 3-years term and may transition into the lead CMO role after this (or earlier if necessary). Helping run our meetings is an important and valuable service to our societies and our field which is largely a volunteer effort, but each ACMO will be given a stipend of \$5000 in appreciation. All meeting attendance costs will be also be covered, as well as any other costs associated with carrying out meeting responsibilities.

The time commitment is variable but is expected to average a few hours/week, ramping up at certain times depending on particular tasks and in the month preceding the meeting. Much of the time is spent in electronic communication and virtual meetings, but there may also be some duties at the conference.

These positions are best suited to someone who has attended several of our recent meetings, has academic organizational and leadership experience, enjoys teamwork, and would find it rewarding to serve the societies by fostering dynamic and high-quality meetings. We welcome expressions of interest in these positions. To do so, please contact [evolution.meetings@gmail.com](mailto:evolution.meetings@gmail.com) with 'ACMO positions' in the subject and include any relevant experience and a CV with your message. The goal is to fill these positions as soon as possible to aid the current CMO (Howard Rundle) in the planning of the 2022 meeting, currently scheduled to be held in Cleveland, Ohio, on June 24-28. Note that there are no geographic restrictions and no citizenship or residency requirements, but attendance at the 2022 and subsequent meetings is expected.

About the annual conference: The Evolution meeting is the joint conference of the American Society of Naturalists, the Society for the Study of Evolution, and the Society of Systematic Biologists. The conference is held in a different location every year, primarily in the United States but occasionally in other countries (see <https://www.evolutionmeetings.org/past-future-meetings.html>). Recent and future locations include Austin Texas, Portland Oregon, Montpellier France, Providence Rhode Island, and Cleveland Ohio. The meeting is the premier opportunity for sharing research on evolutionary biology. The conference attracts between 1600-2000 attendees and includes more than 1,000 oral presentations, 400-500 posters, a diverse array of social events, and a variety of workshops. It runs for approximately 5 days (depending on satellite events) in

mid-late June. Evolution has an enforced meeting Code of Conduct and a strong commitment to promoting equity and inclusion. More information is available on the conference web site: <http://www.evolutionmeetings.org>, including complete programs from recent meetings. Conferences are run on a break-even basis with careful attention given to minimizing registration costs for attendees.

Howard Rundle <[hrundle@uottawa.ca](mailto:hrundle@uottawa.ca)>

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## CitizenScienceGame Of ButterflyHunting

Hi everyone,

In need of a pause in this busy month? Go on butterfly hunting for a few minutes!

As part of a project led by researchers from CEFE (Montpellier, France), MNHN (Paris, France), and INRIA (Bordeaux, France) and the University of North Carolina (US), \*we have developed a citizen science game to better understand camouflage\* methods and their effectiveness against predation: <https://findthebutterflyv2.cleverapps.io/>

If you have played the previous game "find the butterfly", no problem, just let us know by checking the box and play the new game! These are two independent games and your help will be precious this time too! If you have already played this very game, indicate it, but your contribution will not be taken into account. \*We need inexperienced hunters to increase our sample size.\*

Play the role of a hungry predator looking for butterflies camouflaged in their environment and click as quickly as possible on the butterfly hidden in the image! To play, it's easy: take a card of the format of a credit card (so that we have an idea of the real size of the images on your screen), your favorite computer (the game is not designed to be played on a smartphone) and let's go: it will only take you about 10 minutes!

Please share this link with your networks, friends, family, and colleagues...

We need a lot of responses from all age groups, including children! The more players, the more consistent the results!

Have fun and thank you for your contribution!  
fun

Doris Gomez PhD Behavioural Ecology

CNRS researcher Centre for Evolutionary and Functional Ecology Montpellier, France email: doris.gomez@cefe.cnrs.fr

Doris GOMEZ <doris.gomez@cefe.cnrs.fr>

## ESEB EqualOppFund DeadlineSep30

### \*\* ESEB EQUAL OPPORTUNITIES INITIATIVE FUND \*\*

The European Society for Evolutionary Biology is pleased to announce the open call for proposals for activities that increase knowledge and awareness of unequal opportunities. Such proposals can include, but are not limited to, short workshops (for instance, on unconscious bias) and/or seminars (with invited speakers) at your home organization, data collection, publication activities and similar events. It must be clear from the proposal how the activity will improve our knowledge and awareness of unequal opportunities, or how the activity will improve equal opportunities directly, in the ESEB specifically, or Evolutionary Biology as a field in general. There are two calls per year, with the next upcoming deadline being the 30 Sep 2021. More information about the Equal Opportunities (EO) Initiative is available at <https://eseb.org/prizes-funding/equal-opportunities-initiative/equal-opportunities-initiative-fund/>. \*ELIGIBILITY\*

- The main applicant must be ESEB member (to become a member of ESEB, please visit <https://eseb.org/society/membership/>) - Applications can be submitted by scientists at any stage of a professional career (e.g., undergraduate, Masters and PhD students, postdocs, and lecturers). - Applicants must provide proof of support of the host institution where the activity should take place, if applicable (letter from head of department) - Applicants must explain explicitly how their activity will improve our knowledge, awareness of unequal opportunities, or how the activity will improve equal opportunities directly, in ESEB specifically, or Evolutionary Biology as a field in general. - Applicants must detail which group of people, and how many, will benefit from this activity (for instance, 50 undergraduates, 10 graduate students, 15 faculty members) - Budgets should be reasonable (usually not exceeding 1000 EUR, if more is required, please contact EO committee first), and, if applicable, detail costs per person (that benefit from

this event).

### \*HOW TO APPLY\*

The application should be no more than 3 pages long (excluding CV and support letter) and include: - Name of the applicant(s), please indicate the main applicant if appropriate. - A proposal of the activity - A justification of how the activity will improve our knowledge, awareness of unequal opportunities, or how the activity will improve equal opportunities directly, in ESEB specifically, or Evolutionary Biology as a field in general. - Which group of people will benefit (students, staff, general public), and how many - A detailed, justified budget (including cost per beneficiary) - A time schedule - A short summary to be published on the website (100-150 words) - CVs of the applicants (1-2 pages) - A letter of support of the host institution's head of the department

Please submit the application as a single PDF-file by email to Ute Moniatte (office@eseb.org; Subject: EO Fund) at the ESEB Office at the ESEB Office and take care to limit the size of attachments (total < 10 MB) in any one email.

\*Deadline 30 September 2021\*

Successful applications must hand in a report about the activity, including details of how funds were spent, within 3 months of the event.

Dr. Ute Moniatte| ESEB Office Manager European Society for Evolutionary Biology | [www.eseb.org](http://www.eseb.org) "office@eseb.org" <office@eseb.org>

## Montpellier VisitingScientist Applications

'VISITING SCIENTISTS' call for applications to the Montpellier Advanced Knowledge Institute on Transitions (MAK'IT), University of Montpellier, France is opening until 31 October 2021.

This hosting programme is dedicated to senior researchers from outside of France and all disciplines, whose research project is related, in a transversal and innovative way, to the action areas of MAK'IT - agriculture & food, environment, health - and contributes to its mission to analyse, accompany and accelerate transitions towards sustainable development. The selected fellows are invited for a 3 to 10 month residency in one or several research



unit(s) of the Montpellier's scientific community. More information : <https://muse.edu.umontpellier.fr/en/muse-i-site/international/makit-home/call-for-applications-visiting-scientists/> Please let me know if you need any additional information.

With many thanks in advance for your consideration and best regards,

Marianne

Marianne chaumel

PROJECT MANAGER - montpellier advanced knowledge institute on transitions (MAK'IT) I-SITE MONTPELLIER UNIVERSITÄ D'EXCELLENCE (MUSE)

marianne.chaumel@umontpellier.fr

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163 rue Auguste Broussonnet 34090 Montpellier

[www.umontpellier.fr](http://www.umontpellier.fr) Marianne Chaumel  
<marianne.chaumel@umontpellier.fr>

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## OFB France Biodiversity CallForProposals

Dear all,

This call for proposals might be of interest for you. As part of the implementation of the national "terrestrial biodiversity monitoring" programme carried out by the French Biodiversity Office (OFB), which aims to measure, identify and monitor the influence of human activities on biodiversity and the best practices to be promoted, the Ministry of Ecological Transition (MTE) and the French Foundation for Research on Biodiversity (FRB) are launching a call for research projects on the "Impacts on terrestrial biodiversity in the Anthropocene". The call aims to characterize the positive, negative or non-existent impacts of human activities and induced pressures on the state and dynamics of terrestrial biodiversity.

The results of the research funded by the programme should help to strengthen the actions of society as a whole, to halt the decline of biodiversity and promote sustainable human development.

This call for proposals will allow the funding of:

\* 3 three-year data SYNTHESIS projects for 200 k euro each  
\* 4 to 6 one-year SYNERGY projects for 50 k euro

each \* 2 to 4 one-year SYSTEMATIC MAP projects for an amount of 50 k euro each

More information: <https://www.fondationbiodiversite.fr/en/calls/call-for-proposals-frb-mte-ofb-impacts-on-terrestrial-biodiversity-in-the-anthropocene/> Many thanks,

Marie-Claire Danner

SCIENCE OFFICER IPBES TSU FOR THE ASSESSMENT OF SUSTAINABLE USE OF WILD SPECIES CHARGÉE DE COMMUNICATION CESAB (CENTRE DE SYNTHÈSE ET D'ANALYSE SUR LA BIODIVERSITÄ) +33 (0)6 71 66 46 58 Siège de la FRB : 195, rue Saint-Jacques 75005 PARIS

Marie-Claire DANNER <marie-claire.danner@fondationbiodiversite.fr>

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## SNP-combinations Method

or used to be computationally impossible... — dear and reputable dears of the evoldir dir,

sorry to take your time, but i uploaded this weekend to biorxiv and researchgate two PDFs (text,figures) that present my work since 2004 on a new method for finding, column by column, groups of marker columns ("marker combinations") that are internally associated in any way to others or that as such are associated to a dependent variable.

The method is highly computationally tractable even in very large data matrices.

I am looking for informal reviewers and feedback on content and readability as well as for tips on pre-publication-feedback sites, journals to submit to, and whom to recommend as formal reviewers.

I'd also appreciate it very much if you could point out additional references, published and not, that you think could or must be cited.

the abstract is below preceded by links to the PDFs, but you can get the PDFs from me too if you email me.

many thanks in advance! :)

best

m

marcos.antezana@gmail.com

<https://www.researchgate.net/project/the-PAS-method> (better quality figures) <http://dx.doi.org/>-

10.1101/2021.09.15.460360 — A novel algorithm to flag columns associated in any way with others or a dependent variable is computationally tractable in large data matrices and has much higher power when columns are linked like mutations in chromosomes. Marcos A. Antezana =====<<STRACT. When a data matrix DM has many independent variables IVs, it is not computationally tractable to assess the association of every distinct IV subset with the dependent variable DV of the DM, because the number of subsets explodes combinatorially as IVs increase. But model selection and correcting for multiple tests is complex even with few IVs.

DMs in genomics will soon summarize millions of markers (mutations) and genomes. Searching exhaustively in such DMs for mutations that alone or synergistically with others are associated with a trait is computationally tractable only for 1- and 2-mutation effects. This is also why population geneticists study mainly 2-marker combinations.

I present a computationally tractable, fully parallelizable Participation in Association Score (PAS) that in a DM with markers detects one by one every column that is strongly associated in any way with others. PAS does not examine column subsets and its computational cost grows linearly with the number of columns, remaining reasonable even when DMs have millions of columns. PAS P values are readily obtained by permutation and accurately Sidak-corrected for multiple tests, bypassing model selection. The P values of a column's PASs and dvPASs for different orders of association are i.i.d. and easily turned into a single P value.

PAS exploits how associations of markers in the rows of a DM cause associations of matches in the pairwise comparisons of the rows. For every such comparison with a match at a tested column, PAS computes the matches at other columns by modifying the comparison's total matches (scored once per DM), yielding a distribution of conditional matches that reacts diagnostically to the associations of the tested column. Equally computationally tractable is dvPAS that flags DV-associated IVs by also probing the matches at the DV.

Simulations show that i) PAS and dvPAS generate uniform-(0,1)-distributed type I error in null DMs and ii) detect randomly encountered binary and trinary models of significant n-column association and n-IV association to a binary DV, respectively, with power in the order of magnitude of exhaustive evaluation's and false positives that are uniform-(0,1)-distributed or straightforwardly tuned to be so. Power to detect 2-way associations that extend over 100+ columns is non-parametrically ultimate but that to detect pure n-column associations

and pure n-IV DV associations sinks exponentially with increasing n.

Important for geneticists, dvPAS power increases about twofold in trinary vs. binary DMs and by orders of magnitude with markers linked like mutations in chromosomes, specially in trinary DMs where furthermore dvPAS fine-maps with highest resolution.

— Keywords: synergism, epistasis, non-additivity, additivity, interaction effects, marginal effect, 2-way, 3-way, higher-order effects, linkage disequilibrium, linkage, fine-mapping, coarse-mapping, chi2 partitioning, mutation, combinations, model heterogeneity, frequentistic, computational tractability, data mining, prime numbers, big data, large matrices.

marcos antezana <marcos.antezana@gmail.com>

## Trinidad SpeciesInteractions

\*Research Internships - Ecology and Evolutionary Biology\*

Research interns are needed to assist in a multidisciplinary, multi-investigator, experimental study of the evolution of species interactions in Trinidad, West Indies. The research is led by Professors David Reznick (University of California, Riverside), Joseph Travis (Florida State University), Tim Coulson (University of Oxford), and Ron Bassar (Williams College).—We seek to integrate multiple biological fields for the study of these interactions in experimental populations of guppies and killifish in Trinidad. Duties include assisting in monthly censuses of guppy populations in montane streams. The monthly censuses include long hours in the field and laboratory.—There will also be 12 days off between each census when interns can pursue an independent project.

Interns will be required to spend a minimum of 3-months in Trinidad, with possibility of extension. There are potential start dates in November 2021 and every month thereafter until September 2024. We will cover all—travel and living expenses and provide housing.

\*Qualifications:\* We seek interns who are entertaining the possibility of pursuing graduate studies in some area of ecology and evolution and who wish to gain some additional field research experience before doing so.—Research will take place in semi-remote areas of Trinidad sometimes under bad weather conditions. Applicants must be able to live and work well with oth-

ers. Research will involve carrying heavy packs over slippery and steep terrain. Applicants must be in good physical condition and be able to meet the demands of field research under these conditions. Ability to drive a standard transmission vehicle is desirable but not required. Applicants with first-aid/first responder training, skills in automobile maintenance, and construction skills are highly desirable. Please address these skills when applying.

Please see our website < [www.theguppyproject.weebly.com](http://www.theguppyproject.weebly.com) > for more information on the project and access to reprints. Be sure to check out our video menu, which includes a “guppy censuses” as submenu VII. It details the main tasks associated with the internship.

Applicants should send cover letter, CV and the names and e-mail addresses of three or more professional references to David Reznick ([gupy@ucr.edu](mailto:gupy@ucr.edu)). At least two of the references should be academics.

Ron Bassar Assistant Professor Department of Biology Williams College 59 Lab Campus Drive Williamstown, MA 01267 Phone: 413-597-2119 College Webpage: <https://biology.williams.edu/profile/rdb4/> Personal Webpage: [www.ron-bassar.squarespace.com](http://www.ron-bassar.squarespace.com) The Guppy Project: [www.theguppyproject.weebly.com](http://www.theguppyproject.weebly.com) Ron Bassar <[rdb4@williams.edu](mailto:rdb4@williams.edu)>

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## UHolar FishCognitionInternship

Hello everyone,

The Department of Aquaculture and Fish Biology, Hólar University, Iceland, is looking for a Masters student for a project about Arctic charr spatial cognition. See advert below:

Title : Internship position in fish behavior and cognition

Hosting structure : Department of Aquaculture & fish Biology, Hólar University - Iceland

Dates : from January 2022 to June 2022, but discussable

Context of the study: Comparative studies might give an insight on how cognition has evolved across taxa. The evolution of spatial cognition is of particular interest because all animals depend on navigational skills to find food or mates, retrieve the nest and escape predators. Hence, spatial cognitive abilities have an impact on individuals' fitness and are consequently subject to natural selection. In that sense, spatial cognitive

abilities in each population should be locally adapted to its particular ecological conditions. The Icelandic Arctic charr (*Salvelinus alpinus*, AC) is found as several sympatric morphs thriving in very different types of habitats, from anadromous to benthic and pelagic lake-resident morphs, and ranging along an evolutionary gradient of divergence. We hypothesize cognitive abilities to be shaped according to both evolutionary history and current ecological factors. The project is lead by Prof. David Benhaïm (lead PI, Hólar Univ., Iceland) in collaboration across Hólar Univ. (Prof. Bjarni K. Kristjánsson, Dr. Camille Leblanc), University of Caen, France (Dr. Christelle Jozet), IFREMER, France (Dr. Marie-Laure Bégout, Dr. Benjamin Geffroy), INRA, France (Dr. Xavier Cousin) and University of Iceland (Prof. Zophonías O. Jónsson).

Student project: The student will specifically be involved in identifying cognitive ability differences between morphs and environments, by monitoring learning abilities in offspring of wild-caught AC morphs along a degree of divergence and raised under complex vs. plain conditions. To do so, the student will be working in close collaboration with a PhD student to train AC individuals to solve spatial cognitive tasks in a maze, and then highlight behavioral differences using an automated behavioral tracking software s/he will be introduced to.

Requirements: The candidates must be enrolled in a degree in the fields of ethology, evolutionary or behavioral ecology, or relevant equivalent fields. The ideal candidate has a strong interest in pluridisciplinary research with an emphasis on cognition. S/he enjoys working in a dynamic group but should be able to work independently as well. Statistical skills will be a plus. A valid driving license is a requirement.

Organizational details: Working language is English. The student will be provided with a discount on University accommodation as a lab member, and commuting between the lab and the accommodation place will be at the lab's charge. The student will also have free access to the University gym, pool, hot pot and cold pot. Aside, remuneration is not available for this project, but Iceland is eligible for Erasmus+ grants.

Application: Applicants should send an application letter, with a statement of research interests and relevant experience and curriculum vitae as a single pdf to both Pr. David Benhaïm, [benhaim@holar.is](mailto:benhaim@holar.is) and Dr. Marion Dellinger, [marion@holar.is](mailto:marion@holar.is). For further information contact Pr. David Benhaïm (Dept. of Aquaculture and Fish Biology, Hólar University, [benhaim@holar.is](mailto:benhaim@holar.is)). Applications open until October 15th, 2021.

All the best,

– Marion DELLINGER PhD Student - Dept. of Aquaculture & Fish Biology - Hólar University & University of Iceland, Iceland Doctor of Veterinary Medicine - National Vet School of Nantes - ONIRIS Chantrerie, France Master's degree - Biodiversity Ecology Evolution - Functional, Behavioral and Evolutionary Ecology - University of Rennes 1, France Háeyri 1, 550 SauÁárkrókur, Iceland. marion@holar.is +336.26.10.39.36

Marion Dellinger - HOL <marion@holar.is>

## UParis Saclay AppleDiversity

\*Role of CNV in apple diversification and domestication\*

Amandine Cornille's group, Univ. Paris Saclay (<http://moulon.inrae.fr/en/equipes/eclectic/>) is recruiting a Master (bioinformatic) student to investigate the role of copy number variation in apple evolution.

The intern should apply if she/he is enrolled in a University (people already graduated with a Master degree are not eligible for this project).

Lab address?(supervision): ECLECTIC team (Ecological genomics of multi-species interaction)Laboratoire Génétique Quantitative et Evolution-Le Moulon

Universit?? Paris-Saclay - INRAE - CNRS - AgroParis-Tech Ferme du Moulon 91190 Gif-sur-Yvette France

Supervisors : Amandine Cornille (amandine.cornille@inrae.fr) and Xilong Chen (postdoc, ECLECTIC team)

Project summary

CNVs are regions of the genome that vary in integer copy number and are found across all domains of life, from bacteria and archaea to plants and animals. CNVs are now recognized as the largest source of interindividual genetic variation that can affect more bases than single nucleotide polymorphisms (SNPs), variable number tandem repeats and other small genetic variants. New bioinformatic approaches now make it possible to characterize CNVs from short-read DNA sequencing data (Kosugi et al., 2019) to unravel their role in population adaptation.

The genus *Malus*, distributed throughout temperate regions, includes all wild apple species, and one domesticated species, *Malus domestica*. The origin of the genus, as well as the history of apple domestication, has

been documented using genetic markers (microsatellites, and nuclear and chloroplast sequences) (Cornille et al., 2012; 2014; Bina et al., 2021). The origin of the genus is supposed to be in China, followed by diversification in America on the one hand, and to the West (Caucasus and Europe) on the other. Regarding the apple domestication process, we now know that the cultivated apple tree (*M. domestica*) originated in the mountains of Kazakhstan in Central Asia from the wild species of this same region, *M. sieversii*. During its journey along the ancient Silk Roads, the cultivated apple tree underwent recurrent introgressions involving the Caucasian and European wild species, *M. orientalis* and *M. sylvestris*, respectively (Cornille et al., 2012; Cornille et al., 2019; Cornille et al., 2014). I Master project

The aim of the internship will be to build a bioinformatic pipeline for the detection of CNV in wild and cultivated apples. To address this question, we will use datasets of short-read sequenced genomes of wild and cultivated apples Methodology: Bioinformatic, genomics, evolution, statistical analyses, writing.

Profile preferred for the candidate: Ideally, the candidate will have skills in evolutionary genomics and bioinformatics. He/she will not necessarily be familiar with the apple model.

Gratification: 550 euros / month

Duration : 5-6 months, starting date: from January 2022, contact Amandine CORNILLE, with a CV, a motivation letter, marks of your bachelor and Master 1, and mails of referees, for further discussions. Supervision??: Amandine CORNILLE ??? Group leader ECLECTIC team

G??n??tique Quantitative et Evolution - Le Moulon Ferme du Moulon 91190, Gif??-sur??Yvette, France Mail : amandine.cornille@gmail.com Twitter: @CornilleAmand Google Scholar profile: <https://scholar.google.com/citations?user=-EqIE2h8AAAAJ&hl=fr> Group page: <http://moulon.inrae.fr/equipes/atip/>

References

Cornille, A., Gladieux, P., Smulders, M. J. M., Rold??n-Ruiz, I., Laurens, F., Le Cam, B., ??? Giraud, T. (2012). New insight into the history of domesticated apple: secondary contribution of the European wild apple to the genome of cultivated varieties. *PLoS Genet*, 8(5), e1002703.

Cornille, Amandine, Antol??n, F., Garcia, E., Vernesi, C., Fietta, A., Brinkkemper, O., ??? Rold??n-Ruiz, I. (2019). A Multifaceted Overview of Apple Tree Domestication. *Trends in Plant Science*, 24(8), 770???782. doi:

<https://doi.org/10.1016/j.tplants.2019.05.007> Cornille, Amandine, Giraud, T., Smulders, M. J. M., Roldán-Ruiz, I., & Gladieux, P. (2014). The domestication and evolutionary ecology of apples. *Trends in Genetics*, 30(2), 57-65. doi: 10.1016/j.tig.2013.10.002

Gaut, B. S., D'ez, C. M., & Morrell, P. L. (2015). Genomics and the Contrasting Dynamics of Annual and Perennial Domestication. *Trends in Genetics*, 31(12), 709-719. doi: 10.1016/j.tig.2015.10.002

Kosugi, S., Momozawa, Y., Liu, X., Terao, C., Kubo, M., & Kamatani, Y. (2019). Comprehensive evaluation of structural variation detection algorithms for whole genome sequencing. *Genome Biology*, 20(1), 117. doi: 10.1186/s13059-019-1720-5

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## UParis Saclay ClimateChange

Amandine Cornille's group (ECLECTIC for Ecological genomics of multi-species interactions, Univ. Paris Saclay, <http://moulon.inrae.fr/equipes/eclectic/>) is recruiting a Master student to investigate the response of fruit trees to climate changes using population genomics approaches!

The intern should apply if she/he is enrolled in a University (people already graduated with a Master degree are not eligible for this project). This internship is sponsored by CNRS and the Fondation pour la recherche sur la biodiversité (<https://www.fondationbiodiversite.fr>)

#####

Title: Responses of the a major contributor to the cultivated apple genome (*Malus sylvestris*) to climate change

Summary Crop wild relatives have a high potential phenotypic and genetic diversity for future breeding programs in the context climate change. However, the study of responses to climate change have been surprisingly neglected in crop wild relatives, especially in fruit trees. Sustainable fruit production relies on the selection of phenotypes in the cultivated germplasm presenting adequate response to local climatic conditions. However, those recent breeding often result in a reduction of genetic diversity and a loss of valuable alleles

at genes not directly targeted by human selection. As a consequence, important traits allowing response to local climatic conditions may be absent in the cultivated germplasm while present in wild relatives. The challenge is thus to investigate the response to climate of wild close relatives of crop species in order to identify phenological traits that can be introgressed into elite lines in future breeding programs.

Using evolutionary genomics, the student will use a powerful approach combining transplant experiments in controlled climatic conditions, measures of growth rates, phenological traits, and gene expression data to investigate the plastic responses of two wild apple relatives (*Malus sylvestris* and *Malus orientalis*) of the cultivated apple (*Malus domestica*) to climate change. The project will bring new insight in how fruit tree species respond to climate change and will therefore provide a practical basis for conservation, agroforestry, and breeding programs for apples. The Master student will have the opportunity to pursue a PhD project by applying to the Doctoral School "Sciences du Végétal"

Key words: plant breeding, climate change, apple, fruit trees, transcriptomics, population genomics, molecular biology, genetic resources, natural biodiversity

Duration: 5-6 months, whenever possible from 1st January 2022. Contact Amandine CORNILLE for further discussions (with a CV, motivation letter and marks of your Bachelor and Master, as well as at least one referee, two referees are preferred).

Monthly gratification: 550 euros/months.

Methodology: population genetics, gene expression analyses, bioinformatics, statistics.

Profile preferred for the candidate: Ideally, the candidate will have skills in genetics/genomics and evolution and at least will show strong interest in these fields. He/she will not necessarily be familiar with apple models. The Master project will be proposed to the Doctoral School "Science du Végétal" (Paris Saclay Doctoral School) for a PhD project on the genomic basis of fruit tree domestication in June 2022.

Supervision : Amandine CORNILLE ?? Group leader ECLECTIC team, and Xilong CHEN (bioinformatician) Génomique Quantitative et Evolution - Le Moulon Ferme du Moulon 91190, Gif-sur-Yvette, France Mail : [amandine.cornille@gmail.com](mailto:amandine.cornille@gmail.com) Twitter: @CornilleAmand Google Scholar profile: <https://scholar.google.com/citations?user=-EqIE2h8AAAAJ&hl=fr> Group page: <http://moulon.inrae.fr/equipes/atip/> References

-Cornille A, Gladieux P, Smulders MJ. et al. (2012) New

insight into the history of domesticated apple: secondary contribution of the European wild apple to the genome of cultivated varieties. *PLoS Genet*, 8, e1002703.

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Amandine Cornille <amandine.cornille@gmail.com>

gram, please feel free to reach out! Thanks so much for your help distributing this announcement and hope to see you later this month.

Sincerely,

Malin Pinsky

Malin Pinsky (he/him/his) Associate Professor Director, Graduate Program in Ecology & Evolution Department of Ecology, Evolution, and Natural Resources, Rutgers University 14 College Farm Rd., New Brunswick, NJ 08901 USA malin.pinsky@rutgers.edu | @pinskylab < <https://twitter.com/pinskylab> > <http://pinsky.marine.rutgers.edu> \*I recognize that at my institution, we learn, teach, and live on or near the ancestral homelands of the Munsee Lenape and Lenni-Lenape I acknowledge my institution's role in histories of dispossession and recognize my own responsibility to our Indigenous connections. \*

Malin Pinsky <malin.pinsky@gmail.com>

## Webinar GraduateSchool Sep22

Dear colleagues,

The Rutgers Ecology & Evolution graduate program (<https://ecoevo.rutgers.edu/>) is hosting an online info session and Q&A for undergraduates who may be interested in graduate school in ecology and evolution but are either unaware of the opportunities or unfamiliar with the process. Please join us! Or, if you have a website or students who may be interested, I'd be grateful if you could forward our invitation.

The session will be a 90-minute Zoom webinar and will include faculty and a grad student panel with opportunities to ask questions. We'll focus on demystifying the graduate school experience, offer some brief descriptions of some of the work we and our colleagues do here at Rutgers, and give some advice on finding and applying to a lab.

The session will be Wednesday, September 22nd, from 4:00 - 5:30 pm EDT. Participants must register in advance at [https://rutgers.zoom.us/webinar/register/-WN\\_CqzLT3P2QNOjFIHoT2\\_X8g](https://rutgers.zoom.us/webinar/register/-WN_CqzLT3P2QNOjFIHoT2_X8g) We also have a flyer available at <https://drive.google.com/file/d/1yTctDbU8ZfklcZvI-jhEJF-gmyMhdUu6/view?usp=sharing> This is the second event of this type that we have hosted, after high demand for our first event in April.

If you have any questions about the event or our pro-

## WebinarSeries PopulationGenetics Vienna

The Vienna Graduate School of Population Genetics runs an internationally recognized seminar series featuring weekly talks by leading experts in population genetics. The pandemic forced us to go online, so we invite interested listeners to join our Tuesday webinars (17:00 CET/CEST):

Sign up here to receive webex invitations/reminders: <https://forms.gle/A1RxmtCEvx6g11WbA> Winter term webinar program:

05.10.21 - Sheng-Kai Hsu (Vetmeduni Vienna, AT) The role of sex in evolution: sexual conflict and sexual selection.

12.10.21 - Hunter Fraser (Stanford Univ., US) Using hybrids to explore the evolution of complex traits.

19.10.21 - William Ludington (Carnegie Institution for Science, US) The niche for commensal bacteria in the *Drosophila* gut: a model for complex host-microbiome relationships.

02.11.21 - Kerstin Lindblad-Toh (Broad Institute, US / Univ. of Uppsala, SE) Understanding genome evolution and disease using comparative genetics and genomics.

09.11.21 - Florian Schwarz (Vetmeduni Vienna, AT) Transposable Element dynamics in space and time.

16.11.21 - Kathryn Elmer (Univ. of Glasgow, UK) Evolution, ecology, and genetics of egg-laying vs live-bearing reproduction.

30.11.21 - Eugene Koonin (National Institutes of Health, US) Evolution of viruses.

07.12.12 - Amaury Lambert (Collège de France / Sorbonne Univ., FR) Neutral models of speciation.

14.12.21 - Jianzhi Zhang (Univ. of Michigan, US) Most synonymous mutations in yeast are strongly non-neutral.

21.12.21 - Aglaia Szukala (Univ. of Vienna, AT) title tba

11.01.22 - Torsten Günther (Uppsala Univ., SE) title tba

18.01.22 - Bart Nieuwenhuis (Ludwig-Maximilians-Univ., DE) title tba

25.01.22 - John Kelly (Univ. of Kansas, US) title tba

All information about schedule updates and recorded talks: <https://www.popgen-vienna.at/news/seminars/>  
Kind regards, Julia on behalf of PopGen Vienna

Dr. Julia Hosp Vienna Graduate School of Population Genetics Coordinator

[www.popgen-vienna.at](http://www.popgen-vienna.at) <https://twitter.com/-PopGenViennaPhD> c/o Institut für Populationsgenetik Veterinärmedizinische Universität Wien (Vetmeduni Vienna) Veterinärplatz 1, 1210 Wien

Current home office contact via Skype: julia.hosp Office: +43 1 25077 4302

<http://www.vetmeduni.ac.at/en/population-genetics/>  
<https://twitter.com/PopGenVienna> Julia Hosp  
<Julia.Hosp@vetmeduni.ac.at>

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## PostDocs

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## AMNH Brigham Young U 2 Insect Phylogeny

We are hiring two postdocs, one at the AMNH and one at BYU as part of the collaborative GEODE grant (<http://geode-dragonfly.net/>)! The postdocs would work together with PIs from these institutions as well as Naturalis, U Alabama and U Florida. Do you like dragonflies? genomics? morphology? geographical distributions? We have a lot of exciting work ahead, please join us! See job ads below, and follow the links to apply: AMNH #postdocjobs: <https://careers.amnh.org/postings/2457> BYU #postdocjobs:

Questions? Email [seth.bybee@gmail.com](mailto:seth.bybee@gmail.com),  
[jware@amnh.org](mailto:jware@amnh.org), [paul\\_frandsen@byu.edu](mailto:paul_frandsen@byu.edu)

Position Title

Postdoctoral Fellow

Department

Invertebrate Zoology - 011

Position Summary

Jessica Ware and team are seeking a Postdoctoral Fellow for an NSF funded project focused on a global phylogeny of dragonflies and damselflies (Odonata). This project is funded across multiple lab groups and institutions (Ware Lab American Museum of Natural History, Bybee and Frandsen Labs BYU, Abbott Lab University of Alabama, Guralnick Lab University of Florida and Kalkman Lab Naturalis), with the goal of using anchored hybrid enrichment (AHE) to sequence ~70% of all species and provide a rich set of ecological data layers that can then be explored in a phylogenetic context. We seek a highly motivated individual with a bioinformatic skill set to help reconstruct the phylogeny of dragonflies (Anisoptera) and the broader Odonata from AHE data.

The Postdoctoral Fellow will assist in reconstructing the phylogeny of dragonflies (Anisoptera) and the broader Odonata using generated AHE data, morphological and other data. This work is part of a collaborative team effort to reconstruct the evolutionary history of taxa

across Odonata, and the Postdoctoral Fellow will focus on Anisoptera taxon sampling.

The postdoc would have the opportunity to mentor undergraduate students through the AMNH REU program, as well as graduate students working directly on the GEODE project. There is also the opportunity for the postdoc to develop their own research.

Job responsibilities include, but are not limited to:

DNA extraction, preparation of plates of extractions for shipment to external sequencing company, post sequencing data processing, generation of datasets from AHE pipeline, phylogenetic reconstruction, other analyses. Hosting workshops to train others in basic evolutionary analyses, coordinating workshops on morphological data capture, co-mentoring graduate and undergraduate students. Writing of scientific manuscripts, presenting data at conferences, outreach activities.

Required Qualifications

A PhD (ABD candidates are welcome). Experience in phylogenetic analysis, preferably using high throughput sequencing data. A knowledge and experience of working in a high performance computing environment. Scripting experience in a coding language like Python or R. An ability or willingness to work well with others and mentor both graduate and undergraduate students. Ability to coordinate with other institutions in data sharing and analyses.

Preferred Qualifications

A knowledge of Odonata and/or insects in general. Previous laboratory and fieldwork skills.

Physical Demands

Category

Full-Time/Term

Total Number of Scheduled Hours Per Pay Period

70

Union Status

Non-Union

FLSA

Exempt



## EEO Statement

The American Museum of Natural History is an Equal Opportunity/Affirmative Action Employer. The Museum does not discriminate with respect to employment, or admission or access to Museum facilities, programs or activities on the basis of race, creed, color, religion, age, disability, marital status, partnership status, gender, sex, sexual orientation, gender identity, gender expression, genetic information, pregnancy, alienage or citizenship status, current or former participation in the uniformed services, status as a veteran, or national or ethnic origin, or on account of any other basis prohibited by applicable City, State, or Federal law. Additional protections are afforded in employment based on arrest or conviction record, status as a victim of domestic violence, stalking and sex offenses, unemployment status, and credit history, in each case to the extent provided by law. If special accommodations are needed in applying for a position, please call the Office of Human Resources.

## Quick Link

<https://careers.amnh.org/postings/2457> Job Title: Post-doc specializing in global phylogeny of dragonflies and damselflies

Job Classification: Post-Doc Researcher, non-CFS position

Posting close date:10/15/2021

Start date of this position:

01/02/2022; may result in earlier start date

Required Degree:

PhD;Required degree must be completed by the start date.ABD candidates will be considered if their degree will be completedby the start date.

Experience:

-Experience in phylogenetic analysis, preferably using high throughput

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## APHL-CDC Atlanta Bioinformatics

The APHL-CDC fellowship programs are now accepting applications. The Bioinformatics Fellowships includes several opportunities to apply knowledge of population genomics to public health problems in US public health laboratories, including the CDC.

Two rounds of applications are currently scheduled:

1. Due Oct 29 for Jan 2022 start date.
2. Due Feb 28 for July 2022 start date.

More information, including stipend: <https://www.aphl.org/fellowships/Documents/APHL-Fellowships-Criteria.pdf> Application page: <https://www.aphl.org/fellowships/Pages/About-the-Fellowship-Program.aspx> Best wishes,

Adam Retchless

(Bioinformatician at CDC's Respiratory Virus Genomics laboratory)

p.s. The CDC is continuing to hire bioinformaticians in several programs, and additional alerts may be received by registering with the USA Jobs website. (<https://www.usajobs.gov/>)

adam@retchless.us

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## Barcelona EvolutionaryBioinformaticsGenomics

Postdoc Position in Evolutionary Bioinformatics and Genomics

We are seeking to incorporate a senior postdoctoral researcher through the Maria Zambrano program, financed by the Spanish government, to work on the role of human recurrent mutations in genome function, evolution and diseases. This study is part of the INV FEST project and aims to investigate the evolutionary history of recurrent inversions across mammal genomes and determine their potential impact during evolution.

The successful candidate will form part of an interdisciplinary and dynamic research team located at the

Institut de Biotecnologia i de Biomedicina (IBB) of the Universitat Autònoma de Barcelona (UAB). The IBB is a multidisciplinary research institute located at the UAB, which has been selected Campus of International Excellence in Biomedicine. It is located in Bellaterra, a small residential town just 30 min away from the Barcelona center.

Candidate requirements and conditions: We are seeking highly motivated and talented individuals with an excellent track record from all nationalities.

- Recruitment of teaching and research staff with accumulated postdoctoral careers >24 months in national or international—centres (other than the thesis) and currently working in universities or research—centres outside Spain.
- 2-year grant devoted—to—develop—research—activity in Spanish public universities.
- Gross monthly—salary ~3,000 euro plus 3,500 euro for moving expenses.

Application deadline: Please send expression of interest and a CV to Mario Cáceres (mcaceres@icrea.cat) before September 25th 2021, since official application has to be finished by the end of September.

Additional information: InvFEST project: <https://-invest.uab.cat/> Comparative and Functional Genomics group: <http://grupsderecerca.uab.cat/cacereslab/> Mario Cáceres <mcaceres@icrea.cat>

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## Basel Switzerland HostParasitePopGenomics

Postdoc position in host-parasite population genetics and genomics at University of Basel, Switzerland

A postdoc position is available in the research group of Dieter Ebert, at Basel University in Switzerland. I am looking for a highly motivated post-doc with interest in the genetics/genomics of host-parasite interactions. This position is funded to work on the *Daphnia* - microparasite system. A background in evolutionary genetics, molecular genetics and bioinformatics skills is welcome. Excellent written, verbal, and interpersonal skills, a superb work ethic, and the ability to think creatively and critically are desired. Here are 4 recent publications related to this project: - Bento et al 2017. PLoS Genetics, DOI:10.1371/journal.pgen.1006596). - Ebert, D. & Fields, P.D. 2020. Host-parasite coevolution and

its genomic signature. *Nature Reviews Genetics* 21: 754-768. doi: 10.1038/s41576-020-0269-1 - Ameline, C., Voegtli, F., Andras, J., Dexter, E., Engelstaedter, J. & Ebert, D. Genetic slippage after sex maintains diversity for parasite resistance in a natural host population. *bioRxiv* 2021.07.11.451958; doi: <https://doi.org/10.1101/2021.07.11.451958> - Ameline, C., Bourgeois, Y., Voegtli, F., Savola, E., Andras, J., Engelstaedter, J. & Ebert, D. 2021. A two-locus system with strong epistasis underlies rapid parasite-mediated evolution of host resistance. *Molecular Biol. and Evol.* 38: 1512-1528. <https://doi.org/10.1093/molbev/msaa311> The starting date for the position is negotiable. The working language in the group is English. Speaking German is helpful in everyday life in Basel, but is not a requirement. A PhD degree is required. The position is initially for 2 years, but can be extended.

Please send your application by E-mail (all material in one PDF please) to Dieter Ebert. Applications should include a motivation letter, a CV, a list of publications and a 1-page statement about research interests. Please give names and email addresses of two persons who are willing to write a letter of recommendation. Application deadline is 15. October 2021.

Further information and address for application: Prof. Dr. Dieter Ebert, University of Basel, Department of Environmental Sciences, Zoology, Basel, Switzerland Email: [dieter.ebert@unibas.ch](mailto:dieter.ebert@unibas.ch) Web: <http://evolution.unibas.ch/ebert/> Dieter Ebert <dieter.ebert@unibas.ch>

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## BoyceThompsonInst Cornell ComparativeGenomics

\*Boyce Thompson Institute for Plant Science\*

\*September 15th, 2021\*

\*Searching for Comparative Genomic/Transcriptomic Post-doctoral Research Scientists\*

\*Position description:\*

The Nelson laboratory (<https://btiscience.org/andrew-nelson/>) at the Boyce Thompson Institute, Cornell University, Ithaca NY seeks highly motivated scientists to fill 1-2 Postdoctoral appointments. The lab primarily focuses on understanding RNA-based mechanisms that confer resilience to abiotic stress in plants. We utilize computational, genomic, and RNA biochemical approaches ranging in scale from single cell to cross-

species. One position will focus on utilizing single cell RNA-seq to identify the molecular components contributing to leaf development in Maize and how they might be conserved across the grasses- an NSF funded project in collaboration with the Scanlon (Cornell) and Schmitz (UGA) labs. The other NSF-funded position will utilize molecular and computational approaches to understand how RNA modifications contribute to stress adaptation in closely related species. Both projects will utilize bioinformatics and evolutionary/comparative genomic techniques. For more information, visit the Nelson lab website. Researchers will be immersed in the Stress Architecture and RNA Biology group at BTI, which consists of the Nelson and Julkowska (<https://btiscience.org/magda-julkowska/>) labs, as well as the greater BTI and Cornell community.

Applicants must have a Ph.D. in plant biology, genetics, or related disciplines. We particularly seek applicants who have a strong background in RNA biology or computational biology. Excellent oral and written communication skills and the ability to work well in a collaborative research environment are essential. Please submit a resume which includes educational background, publication and work experience, and contact information for 2-3 references which are willing to be contacted for a recommendation. With the application, please submit a one-page (or less) motivation letter describing your research interest and goals. Please submit the application package by email to [an425@cornell.edu](mailto:an425@cornell.edu) with "job application" as the subject line. \*The review of applications will start on October 15th \*

\*and will continue until suitable candidates are identified.\*

\*Expectations:\*

We expect post-doctoral fellows to be independent in performing and designing experiments, integrating feedback from group discussion into their project program, and reporting the project results at group meetings and (inter)national meetings. Independent writing of manuscripts and participation in group meetings, discussions and Institute-wide seminar series is mandatory. Post-docs will be encouraged to serve the role of mentor to others in the lab or act as the lead point of contact with collaborators on multidisciplinary projects.

In turn, the advisor will provide the applicant with thorough feedback on their project progress, manuscripts and grant applications, as well as provide them other opportunities to advance their career. In addition, we commit to developing the applicant's network and soft skills, either personally through mentorship or through BTI/Cornell training programs. To facilitate open communication in this vein, a collaborative individual de-

velopment plan (IDP) will be developed during the first six months and visited every six months.

– Assistant Professor

BOYCE THOMPSON INSTITUTE

\*DISCOVERY & INNOVATION IN THE LIFE SCIENCES\*

\*Inspired by how plants work for humanity.\*

533 TOWER RD, ITHACA, NY 14853 \*Office: 1-979-220-0641\*

Andrew Nelson <[an425@cornell.edu](mailto:an425@cornell.edu)>

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## BrownU DrosophilaMitonuclear

A postdoc position is available to work on the genetic and evolutionary aspects of nuclear-mitochondrial interactions in the laboratory of David Rand and Brown University. The goals of this NIH funded project are to study the epistatic interactions among nuclear and mitochondrial genotypes that modulate fitness, physiological and biochemical traits in *Drosophila*. Mitochondrial genotypes from different strains and species of the melanogaster subgroup are placed on various nuclear chromosomal genetic backgrounds to dissect the genetic basis of sex-specific life history and performance traits. The project involves quantitative genetic analyses of *Drosophila* strains, genetic mapping experiments, computational analysis of genomic and transcriptomic data and inferences from population genetics, development, and evolution. Some recent publications can be found at <https://www.davidrandlab.org>. Applicants must have completed their PhD before starting the position, and have a strong record of accomplishment from their dissertation work. Applicants should have some combination of experience with *Drosophila* genetics, quantitative genetics, biochemical assays, computational analysis, and an interest in evolution or genetics. The appointment is open for up to 3 years, and successful candidates will receive guidance in the preparation of an NIH NRSA Fellowship to pursue related projects.

The position is available now and applications will be reviewed until the position is filled. To apply please submit 1) a CV, 2) a short statement of research interests and experience, including a paragraph on how your previous experience makes you well qualified for this position, and 3) contact information for three references to the following Interfolio site [<https://apply.interfolio.com/87536>].

Brown University is an EEO/AA employer and encourages applications from minorities and women. Review of applications will begin immediately and will continue until the position is filled or the search is closed.

email: David\_Rand@brown.edu Department of Ecology, Evolutionary and Organismal Biology Box G-W, 80 Waterman Street Brown University Providence, RI 02912 (401) 863-2890 (Office), (401) 863-1063 (Lab), (401) 863-2166 (fax) <https://www.davidrandlab.org/> <https://www.brown.edu/academics/ecology-and-evolutionary-biology/> The EEOB Department at Brown is an interactive group with strengths that span genomics, evolutionary biology, functional morphology, ecology, and environmental science. There are close ties to the Department of Molecular and Cellular Biology, the Center for Computational Molecular Biology, the Data Science Initiative, and the Institute at Brown for Environment and Society. <https://www.brown.edu/academics/biology/molecular-cell-biochemistry/-graduate/home> <https://ccmb.brown.edu/home> <https://www.brown.edu/initiatives/data-science/-home> <https://ibes.brown.edu/> Information on postdoctoral studies at Brown can be found here: <https://www.brown.edu/academics/biomed/graduate-postdoctoral-studies/> Providence is widely recognized as the Venice of New England with great restaurants, easy access to Narragansett Bay and ocean beaches, and a rich history. <http://www.providenceri.com/> <https://www.providenceri.gov/> David M. Rand Stephen T. Olney Professor of Natural History Chair, Department of Ecology and Evolutionary Biology Box G-W, 80 Waterman Street Brown University, Providence, RI 02912 Phone: (401) 863-2890 (Office - Walter Hall 202) (401) 863-1063, or -6378 (Lab - BioMed Center 516-518-523) [www.davidrandlab.org](http://www.davidrandlab.org) <https://vivo.brown.edu/display/drand> <https://www.brown.edu/research/-projects/computational-biology-of-human-disease/> david\_rand@brown.edu

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## CNRS France PlantSexualSelection

A 18 months post-doctoral position is opened at the Institut des Sciences de l'Evolution de Montpellier to study sexual selection in plants in the context of the SEX-MATE project funded by the University of Montpellier (MUSE Tremplin ERC program to Jeanne Tonnabel).

Despite evidence that sexual selection operates in plants, direct tests of fundamental concepts from the theory of sexual selection are still lacking for the plant king-

dom. The main barrier preventing the development of a uniform and integrative theory of sexual selection including plants lies in the lack of estimation and experimental manipulation of the central parameter of sexual selection thinking - the number of mating partners, i.e. mating success. Studies in plants have primarily focused on proxies for mating success, such as pollinator visits or number of ovules sired. Yet, the link between these variables and mating success remains entirely unexplored. Problematically, the most attractive plants to pollinators may even fail at exporting pollen to mates if they monopolize pollinator visits (thus reducing the number of pollen recipients). Arguably, the presence of a third party in the operation of sexual selection - the pollinator - certainly introduces a level of complexity that warrants attention, but it should be evaluated in terms of its effect on plant mating success. The SEX-MATE project aims at (1) providing a comprehensive test of the theory of sexual selection in plants, and (2) understanding the specificities of the operation of sexual selection in plants.

**Job description** The recruited researcher will carry out two experiments of the project on the model species *Brassica rapa*: - The first experiment will test a central prediction of the sexual selection theory formulated by 'good-genes' models. It will ask whether plants that perform better to access sexual partners also display a better overall condition, with potentially important implications for plant conservation. This first experiment will use quantitative genetics to estimate genetic correlations between mating success, sexually-selected traits and fitness traits. - The second experiment will investigate the link between the density of pollinators, and the intensity of sexual selection which may bring about different outcomes on male and female functions. This second experiment will also decompose episodes of sexual selection occurring in the phase of pollen dispersal to mates versus when pollen compete to access ovules within pistils. This experiment will involve observations of pollinator behaviour in controlled conditions, as well as paternity analyses using microsatellite genotyping.

**Qualification requirements** The candidate should hold a PhD in evolutionary biology with a solid background in this discipline, have demonstrated expertise at least in one of the following topics: sexual selection, mating systems evolution, or plant evolution, and have a publication record corresponding to his/her experience. The candidate should show a strong motivation both for undertaking experiments and reading conceptual papers on sexual selection. Candidates with expertise in large experiments in plants, quantitative genetics, and/or statistics are particularly welcome.

Candidates must be at ease with insect manipulations

(e.g. bumblebees, flies).

Good skills in English both for writing and oral communication are required.

**Conditions** The position will be held at the Institut des Sciences de l'Evolution de Montpellier (ISEM - UMR 5554). ISEM offers a very dynamic and stimulating scientific environment for studying evolutionary biology with an excellent scientific animation, and various actions directed towards young researchers. Experiments will be performed on the nearby CNRS campus at the Centre D'Ecologie Fonctionnelle et Evolutive (CEFE - 5175) which offers excellent plant growing facilities. Regular scientific meetings will also be held at the CEFE with collaborators of the project (Dr. Patrice David and Prof. Mathilde Dufaÿ). Montpellier is a city located near the sea in South of France with both a great cultural life and various nearby natural environments.

The net salary per month will be ~ 2200 euros. Appointment is for 18 months with a possibility to extend the contract (pending funding acquisition). For more informations on the research group:

<https://isem-evolution.fr/equipe/equipe-evolution-et-demographie/>

**How to apply** Please send to Dr Jeanne Tonnabel (jeanne.tonnabel@cefe.cnrs.fr) a CV, a cover letter describing your interests for the project and associated skills, two contacts information for references.

**Deadline for application** Deadline for application is 8 th of October. Interviews will be held on the week of the 18 th of October.

**Starting date** The starting date will be January 1 st 2022.

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in studying questions focused on genetic conflict. The successful candidate would study the causes and consequences of genetic conflict on social behavior and evolution. This research program investigates the link between sociality and evolution using genetic approaches in social insect systems.

Candidates with experience in genetics, genomics, evolution, behavior, insect science, or computational biology may be appropriate. The candidate would be encouraged to develop an independent research direction that aligns with general research programs in the lab.

Interested applicants are encouraged to visit <https://www.goodismanlab.biology.gatech.edu/> or contact Dr. Goodisman at mg225@gatech.edu for more information. Applicants should submit applications for Job ID 222494 through the site

[https://careers.hprod.onehcm.usg.edu/-psc/careers/CAREERS/HRMS/c/-HRS\\_HRAM\\_FL.HRS\\_CG\\_SEARCH\\_FL.GBL?Page=-HRS\\_APP\\_JBPST\\_FL&Action=U&FOCUS=-Applicant&SiteId=03000&JobOpeningId=-222494&PostingSeq=1](https://careers.hprod.onehcm.usg.edu/-psc/careers/CAREERS/HRMS/c/-HRS_HRAM_FL.HRS_CG_SEARCH_FL.GBL?Page=-HRS_APP_JBPST_FL&Action=U&FOCUS=-Applicant&SiteId=03000&JobOpeningId=-222494&PostingSeq=1) Applications should include:

(1) A cover letter describing relevant experience, qualifications, and interests, (2) A curriculum vitae, and (3) The names and contact information of three references. Review of applications will begin October 1, 2021 and continue until a suitable candidate is identified.

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Michael A D Goodisman, Associate Professor

School of Biological Sciences, Georgia Institute of Technology Cherry Emerson Bldg A124, 310 Ferst Drive Atlanta, GA 30332-0230, United States  
Email: michael.goodisman@biology.gatech.edu  
webpage: <http://www.goodismanlab.biology.gatech.edu/>  
michael.goodisman@biology.gatech.edu

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## HarvardU EvoDevo

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## GeorgiaTech Atlanta GeneticSocialConflict

Postdoctoral position studying genetic conflict in social systems

The Goodisman Lab in the School of Biological Sciences at Georgia Tech seeks a postdoctoral fellow interested

The laboratory of Dr. Cassandra Extavour at Harvard University is looking for one or more collaborative, self-motivated Postdoctoral Associates in Cambridge, MA. The Extavour lab works on the evolution of development at many different levels of biological organization and scale. We seek to understand the evolutionary origins and modern functions of the genes that govern cell fate decisions during animal development. We often

focus on the cell types that ensure that the evolution process can take place at all in multicellular organisms: the germ cells, that produce gametes, and the gonads, which house the gametes. Because we cannot understand evolution by studying a single organism, we use a wide range of model organisms, most of which are insects, including *Drosophila melanogaster* and many other species of *Drosophila* fruit flies. We also employ a wide range of approaches, because we wish to understand evolution from the perspective of the gene, the protein, the cell, the organs, the organism, and the ecological context. Current and previous lab members have had expertise in genetics, microscopy, biochemistry, bioinformatics, molecular evolution, developmental and cellular biology, and behavioural ecology, and we are always interested in team members who will bring new lenses of inquiry. More information can be found on our website: [www.extavourlab.com](http://www.extavourlab.com) < <http://www.extavourlab.com/> >. < <http://www.extavourlab.com/> >

The Postdoctoral Associate will have the opportunity to study the evolution of development broadly speaking, with some flexibility in choosing the specific technical approaches and model organisms to be used. We are particularly interested in scientists with expertise in bioinformatics, biochemistry, biophysics, microbiology, ecology, and mathematical modelling, as we have a number of ongoing research projects that would benefit from applying these ways of solving complex problems. Projects under three major areas of our research are available:

1. *Drosophila* Area: Understanding the animal, plant and microbial contributions to the evolution of specific adaptive traits and phenotypic plasticity, using both *Drosophila melanogaster* and natural populations of wild *Drosophilaspecies* in Hawaii.
2. Protein Evolution Area: Elucidating the biochemical and biophysical basis of evolutionary change in protein function, with a focus on an insect gene whose ancestral function was likely somatic, and which later acquired essential roles in the germ line.
3. Evo-Devo Area: Using and developing non-traditional model species to study the dynamic evolution of early embryonic, germ cell and gonadal development across 500 million years of insect evolution.

This is an excellent opportunity for someone with an interest in developmental biology, evolution, evo-devo and/or the origins of multicellularity to take leadership roles in helping further existing work and developing new projects within our broad intellectual framework, while working with other passionate scientists in a collegial, productive and project-driven laboratory.

The success of our research program relies on open and

transparent communication between all members of the lab, and on our flexibility in pursuing unusual new research directions that arise as synergistic products of the diverse array of perspectives in the lab. For this reason, Dr. Extavour seeks to maintain a diverse and collaborative lab, where a multiplicity of distinct personal and professional experiences enhance both our intellectual work, and our growth together as a supportive team of people seeking to learn as much as we can individually and collectively. Dr. Extavour is an experienced mentor with a proven track record of helping her trainees cultivate professional development skills and success in their subsequent independent scientific careers. Former Extavour lab members have gone on to successful careers in academia, industry, education, communication, government and the arts. In addition to professional development opportunities within the lab and exposure to a breadth of scientific disciplines, the Postdoctoral Associate will be able to take advantage of the vibrant scientific communities of Harvard University, the Quantitative Biology Initiative, the Museum of Comparative Zoology, the Harvard University Herbaria, the Arnold Arboretum, the Harvard Medical School, and the Broad Institute of MIT and Harvard, as well as the numerous other academic and research institutions in Boston and the surrounding area.

#### Preferred Qualifications

Education. A Ph.D. or M.D. is required. Ph.D. students in the final year of their thesis work are eligible to apply, but proof of PhD will be required before their Postdoctoral Associate appointment can begin. Specific degree areas include but are not limited to developmental

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## HebrewU Jerusalem BirdMigration

Call for a fellowship for an outstanding doctoral candidate specializing in birds archaeozoology and paleoecology at The Hebrew University of Jerusalem

Israel is located along one of the biggest bird migration routes. Alongside a rich variety of local species, it has a very rich avifauna record. Global climate change, food availability, predator-prey relationships and an

thropogenic alterations are changing species migration routes and behavior.

The proposed multidisciplinary research will focus on bird species distribution from archaeological Pleistocene sites based on their paleoecological background, following both aspects within a changing environment.

Preference for a background in natural sciences and archaeology.

The candidate will receive a scholarship for the entire period of her/his PhD. study. The project will be carried out in collaboration with researchers Israel and other countries.

Research commences November 2021

To apply, please send your CV and grades by September 26th to rivkar@mail.huji.ac.il

Rivka Rabinovich, Prof. National Natural History Collections, Institute of Earth Sciences, Institute of Archaeology The Hebrew University of Jerusalem, Berman Building, Edmond J. Safra Campus, Givat Ram Jerusalem 9190401, Israel

Tel. 972-2-6585784 Fax. 972-2-6585785 <https://nvhc.huji.ac.il/> rivkar@mail.huji.ac.il

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## HeidelbergU EvolutionaryGenomics

### BIOINFORMATICS POSTDOC IN EVOLUTIONARY GENOMICS

Center for Molecular Biology (ZMBH), Heidelberg University, Germany

A postdoctoral position (3 years with possible extensions) is available immediately in the evolutionary genomics group of Henrik Kaessmann.

We are seeking highly qualified and enthusiastic applicants with strong skills in computational biology/bioinformatics, ideally also with experience in data mining and comparative or evolutionary genome analyses.

We have been interested in a range of topics related to the origins and evolution of vertebrate organs. In the framework of our research, we generate and analyze comprehensive genomics (e.g., RNA-seq, ATAC-seq) datasets based on samples from our large organ collections. More recently, we have begun to bring the work of our lab to the level of single cells using state-of-the-art single-cell genomics technologies and bioinformatics

procedures.

The postdoctoral fellow will be funded by a recently awarded ERC Advanced Grant. In the framework of this grant, we seek to unravel the cellular and molecular origins and evolution of the vertebrate brain. The fellow will perform integrated evolutionary/bioinformatics analyses based on extensive single-cell transcriptomic and epigenomic data as well as spatial transcriptomics data produced in our lab for species representing all major vertebrate lineages, ranging from jawless vertebrates such as the sea lamprey to mammals such as platypus. The precise project will be developed together with the candidate.

In our lab, we attach great importance to a highly collaborative and positive team spirit! And we are particularly fond of the diverse cultural backgrounds of our lab members, which contribute to a very enriching atmosphere.

The language of our institute is English and its members form a highly international group. The ZMBH is located in Heidelberg, a picturesque international city next to the large Odenwald forest and Neckar river. The city offers a very stimulating, diverse and collaborative research environment, with the European Molecular Biology Laboratory (EMBL), German Cancer Research Center (DKFZ), Heidelberg Institute of Theoretical Studies (HITS), and the Max Planck Institute for Medical Research located in close proximity to the University.

For more information on the group and our institute more generally, please refer to our website at the ZMBH (<http://www.zmbh.uni-heidelberg.de/Kaessmann/>).

Please submit a CV, statement of research interest, and names of three references to: Henrik Kaessmann (h.kaessmann@zmbh.uni-heidelberg.de).

– Selected publications:

Sarropoulos, I., Sepp, M., Frišmel, R., Leiss, K., Trost, N., Leushkin, E., Okonechnikov, K., Joshi, P., Giere, P., Kutscher, L.M., Cardoso-Moreira, M., Pfister, S.M., and Kaessmann, H. (2021) Developmental and evolutionary dynamics of cis-regulatory elements in mouse cerebellar cells. *Science*. doi: 10.1126/science.abg4696.

Mazin, P.V., Khaitovich, P., Cardoso-Moreira, M., and Kaessmann, H. (2021) Alternative splicing during mammalian organ development. *Nat. Genet.* 53:924-935.

Wang, Z.Y., Leushkin, E., Liechti, A., Ovchinnikova, S., Minger, K., Brining, T., Rummel, C., Grützner, F., Cardoso-Moreira, M., Janich, P., Gattfield, D., Diagouraga, B., de Massy, B., Gill, M.E., Peters, A.H.F.M., Anders, S., and Kaessmann, H. (2020) Transcriptome and translome co-evolution in mam-

mals. *Nature* 588: 642-647.

Cardoso-Moreira M., Halbert, J., Valloton, D., Velten, B., Chen, C., Shao, Y., Liechti, A., Ascenzi, K., Rummel, C., Ovchinnikova, S., Mazin, P.V., Xenarios, I., Harshman, K., Mort, M., Cooper, D.N., Sandi, C., Soares, M.J., Ferreira, P.G., Afonso, S., Carneiro, M., Turner, J.M., VandeBerg, J.L., Fallahshahroudi, A., Jensen, P., Behr, R., Lisgo, S., Lindsay, S., Khaitovich, P., Huber, W., Baker, J., Anders, S., Zhang, Y.E., and Kaessmann H. (2019) Gene expression across mammalian organ development. *Nature* 571: 505-509.

Sarropoulos, I., Marin, R., Cardoso-Moreira, M., and Kaessmann, H. (2019) Developmental dynamics of lncRNAs across mammalian organs and species. *Nature* 571: 510-514.

Cortez, D., Marin, R., Toledo-Flores, D., Froidevaux, L., Liechti, A., Waters, P.D., Grutzner, F., and Kaessmann, H. (2014) Origins and functional evolution of Y chromosomes across mammals. *Nature* 508: 488-493.

Necsulea, A., Soumillon, M., Warnefors, M., Liechti, A., Daish, T., Zeller, U., Baker, J.C., Grutzner, F., and Kaessmann, H. (2014) The evolution of lncRNA repertoires and expression patterns in tetrapods. *Nature* 505: 635-640.

Brawand, D., Soumillon, M., Necsulea, A., Julien, P., Csardi, G., Harrigan, P., Weier, M., Liechti, A., Aximu-Petri, A., Kircher, M.,

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## HUJI Israel TheoreticalEvolBio

Postdoc in theory of evolution: modeling the evolution of self-incompatibility

Hebrew University of Jerusalem,

Tamar Friedlander's lab <https://www.friedlander-lab.net/> Available immediately.

The Friedlander lab is seeking an outstanding, highly-motivated, curious and creative post-doctoral researcher for cutting-edge theoretical research addressing fundamental questions in evolution.

About the proposed research:

The Friedlander lab studies theoretically how biological networks evolve. Most evolutionary models consider the evolution of a single gene, regardless of its network context. Genes, however, are often part of a network, where the products of one gene affect the activity of others. A fascinating example for a medium-sized network of interacting molecules is the self-incompatibility system of plants. This system enables plants to distinguish between self and non-self fertilization by specific matches and mismatches between pairs of specialized proteins. This immediately raises fundamental theoretical questions about the evolutionary emergence and maintenance of this mechanism. The exact project will be tailored with the candidate.

Our lab is theoretical-computational. The research is inter-disciplinary and uses various tools borrowed from exact sciences to address fundamental questions in biology. On the mathematical side, the analysis will comprise for example evolutionary and biophysical models, data analysis and stochastic computer simulations.

About the position:

There is funding available for two years, with possibility of extension.

Qualifications:

PhD in physics, mathematics, computer science, engineering, computational biology or another related field.

A prerequisite is a keen interest both in mathematical modeling and in biological systems. Good quantitative skills and knowledge of a programming language (preferably in Matlab or Python) are essential.

Background in biology (formal or informal) in an advantage, but not a must.

Salary: Commensurate with qualifications and experience.

How to apply:

Interested candidates should submit:

a one-page cover letter indicating your scientific interests and why you are a good fit to the lab,

your CV and list of publications, and

names and contact information of at least three references familiar with your work.

Please submit these materials to Tamar Friedlander ([tamar.friedlander@mail.huji.ac.il](mailto:tamar.friedlander@mail.huji.ac.il))

with "Postdoc position" in the email subject. Applications will be reviewed

as they arrive, interviews will be over Zoom, and the position will



remain open until filled. The position is available immediately, with

preferred start dates between November 2021 to March 2022.

Informal enquiries are also welcome. Email any questions to Dr. Tamar Friedlander (tamar.friedlander@mail.huji.ac.il)

About the University and location:

The group is part of the institute of Plant Science and Genetics, in the Faculty of Agriculture, Hebrew University of Jerusalem in Israel. The Hebrew University of Jerusalem is internationally ranked among the top 100 leading universities in the world and first among Israeli universities. The Faculty of Agriculture is located in the city of Rehovot, side-by-side with the Weizmann Institute. The city of Rehovot houses a vibrant student and post-doc community, including many international scholars. It is located in the center of Israel, south of Tel-Aviv with a convenient 30 min train connection.

The Hebrew University provides an international working environment with an excellent infrastructure. With the close-by Weizmann Institute, the Faculty of Agriculture is embedded into a collaborative scientific community.

Dr. Tamar Friedlander

The Robert H. Smith Institute of Plant Sciences and Genetics in Agriculture Faculty of Agriculture Hebrew University of Jerusalem P.O. Box 12, Rehovot 7610001, Israel Tel. 972-8-948-9262

Fax 972-8-948-9322

Website: <https://www.friedlander-lab.net/> Twitter: @TamarF\_EvoLab

Tamar Friedlander <tamar.friedlander@mail.huji.ac.il>

and genomics, using free-living songbirds. We are seeking a candidate to develop an original research project that integrates both proximate and evolutionary mechanisms shaping aggressive behavior in birds, with a focus on cavity-nesting birds and/or their non-cavity-nesting relatives.

We seek an intellectually driven individual with a Ph.D. in animal behavior, behavioral genomics, evolutionary biology, or a related field (required by the time of appointment). Other essentials include a strong background in animal behavior, good leadership skills, and a commitment to team science. Experience with avian field ecology, phylogenetic comparative methods, genomic/informatic skills, qPCR, and/or avian neuroanatomy is strongly desired, but relevant training will be provided as necessary. This position is funded by an NSF grant on the evolution of female aggression (IOS CAREER 1942192 < [https://www.nsf.gov/awardsearch/showAward?AWD\\_ID=-1942192&HistoricalAwards=false](https://www.nsf.gov/awardsearch/showAward?AWD_ID=-1942192&HistoricalAwards=false) >), and the position will renewed annually for two years, assuming sufficient progress. Salary will be commensurate with experience, and full benefits are included.

To apply, please submit (i) a letter of application, (ii) a full CV, (iii) a statement of research interests, and (iv) contact information for three references electronically to <https://indiana.peopleadmin.com/postings/11539> Best consideration date is Nov 5, 2021. To accommodate fieldwork in April, expected start date is February 1, 2022, but could be delayed to Spring 2023. Inquiries about the position can be directed to Kimberly Rosvall (krosvall@indiana.edu). Additional information about research in the Rosvall lab can be found at <https://rosvall.lab.indiana.edu/>. Bloomington is a vibrant college town located in scenic, hilly southern Indiana, near several state parks, lakes, and wilderness areas that are incredible for hiking and exploring. The cultural environment provided by the University is exceptionally rich in art, music, and theater. The IU Department of Biology is a community of diverse academic scientists, students, and staff from a wide range of cultures, nationalities, races, and social backgrounds. The department and the Rosvall lab are committed to celebrating this diversity and maintaining a culture of respect, kindness, integrity, empathy, fairness, and inclusivity. Our science thrives in an atmosphere of collaboration and support.

\*The College of Arts and Sciences is committed to building and supporting a diverse, inclusive, and equitable community of students and scholars. Indiana University is an equal employment and affirmative action employer and a provider of ADA services. All qualified applicants will receive consideration for employment without regard to age, ethnicity, color, race, religion, sex, sexual

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## IndianaU BehavioralEvolution

\*Postdoc: Evolution of Behavior, Rosvall Lab, Indiana University\*

A postdoctoral position is available in the laboratory of Kimberly Rosvall, Department of Biology, Indiana University, Bloomington. Our lab investigates the genomic and physiological bases of behavior, and how these mechanisms change over evolutionary time. We approach these questions by combining tools from animal behavior, evolutionary biology, neuroendocrinology,

orientation, gender identity or expression, genetic information, marital status, national origin, disability status or protected veteran status.\*

– Kimberly Rosvall, Ph.D. (she/her) Associate Professor Indiana University Biology Building A318, 1001 E. 3rd Street. Bloomington, IN 47401 812-856-2375 <https://rosvall.lab.indiana.edu/> Kimberly Rosvall <krosvall@indiana.edu>

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### IowaStateU EvolFuncGenomicsTurtles

#### EXTENDED DEADLINE

The Valenzuela lab at Iowa State University (<https://www.eeob.iastate.edu/faculty/valenzuela/>) is recruiting a collaborative and motivated postdoctoral researcher to work on a 4yr NSF-funded EDGE project.

The aim of the project is to develop functional genomics tools in turtles (gene-editing, knockdown, and over-expression) using fibroblasts and organoids for future evolutionary studies.

The ideal candidate will have demonstrated expertise on molecular techniques, including cell/tissue culture. Experience with gene-editing, knockdown, and over-expression techniques is preferred. Individuals with experience in any animal system (model or non-model) are encouraged to apply.

This work is highly collaborative, and training will also take place in the labs at ISU of Maura McGrail and Jeff Essner (Genetics, Development, and Cell Biology) who are experts on gene editing, and in the labs of Karin Allenspach and Jonathan Mochel (Biomedical Sciences, Veterinary Clinical Sciences) who are experts on organoids.

The initial appointment will be for one year from the date of hire, with the possibility of renewal beyond the initial term based on performance and funding availability. Inquiries can be e-mailed to Nicole Valenzuela (nvalenzu@iastate.edu), and should include a CV, a brief statement of research/career goals, and the PDF of any publication in a related area, and the names/contact info of three references.

Application Deadline: Evaluation is ongoing and the position will remain open until filled, such that inquiries after 1 Oct 2021 are still highly encouraged.

Start date is available immediately.

The position is at Iowa State University, a premier land-grant university, in the intellectually vibrant Department of Ecology, Evolution, and Organismal Biology (<http://www.eeob.iastate.edu/>). Iowa State University is an AAU-member comprehensive, land grant, Carnegie Doctoral/Research Extensive University with an enrollment of over 36,000 students. The university is located in Ames (IA), only 35 miles north of Des Moines. Ames is one of the nation's most highly rated metropolitan areas of its size, and it is #33 on the Top 100 Best places to live in the US.

To apply, please submit your materials at the following link: [https://isu.wd1.myworkdayjobs.com/-IowaStateJobs/job/Ames-IA/Postdoc-in-Turtle-Functional-Genomics\\_R5971](https://isu.wd1.myworkdayjobs.com/-IowaStateJobs/job/Ames-IA/Postdoc-in-Turtle-Functional-Genomics_R5971) Dr. Nicole Valenzuela Professor Dept. of Ecology, Evolution, and Organismal Biology Iowa State University Bessey Hall, Ames, IA 50011-4009 URL <https://www.eeob.iastate.edu/faculty/valenzuela/> Voice (515) 294-1285; FAX 515-294-1337

“Valenzuela, Nicole [EEOB]” <nvalenzu@iastate.edu>

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### LundU Sweden 3 EvolutionaryBiology

Researcher in Evolutionary Developmental Biology

Subject description The research group of Dr. Feiner (<http://feiner-uller-group.se/>) is recruiting a researcher in evolutionary developmental biology. The position is fully-funded by a Starting Grant from the European Research Council (ERC). The project aims to unravel the developmental basis of parallel evolution of a suite of exaggerated colors, morphologies, and behaviors - a syndrome ' in wall lizards (genus *Podarcis*). The successful applicant will focus on studies of neural crest cell biology in a comparative context. The project includes a number of different methodologies, including scRNA-seq and other omics approaches. A central aim is to apply gene editing (CRISPR-Cas9) to functionally validate candidate genes. The exact project plan will be adjusted based on the background and interest of the applicant. The starting date is negotiable and funding is available for three years.

Work duties -Active participation in the scientific design of the project -Carrying out developmental biology research on lizards -Development of new methodologies and transfer of existing methodologies to lizards

-Dissemination of the acquired insights, including writing of scientific publications

Qualification requirements -A PhD, within the subject of the position -Very good oral and written proficiency in English -Expertise in developmental biology, gene editing or molecular biology -Documented ability to develop and complete high-quality research -High intellectual capacity and problem-solving ability -Technical and analytical know-how, organization skills -Enthusiasm, dedication and an ability to work both independently and in a team

Meriting -Background in herpetology is advantageous

Terms of employment This is a permanent employment full-time. A probationary period may be applicable. Start date is 2022-01-01 or according to agreement. For more information about the position please contact Nathalie Feiner, [nathalie.feiner@biol.lu.se](mailto:nathalie.feiner@biol.lu.se).

Instructions on how to apply Applications should contain: -Motivation letter describing past research and future research interests (max. 2 pages) -Résumé/CV, including a list of publications -Names, relation to and contact information of 2 professional references -Copy of the doctoral degree certificate, and other certificates/grades that you wish to be considered

More information on how to apply can be found here: <https://lu.varbi.com/what:job/jobID:425854/?lang=en> Deadline for application: 09 Nov 2021

Nathalie Feiner [nathalie.feiner@biol.lu.se](mailto:nathalie.feiner@biol.lu.se)

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Researcher in Evolutionary Genomics

Subject description The research group of Dr. Feiner (<http://feiner-uller-group.se/>) is recruiting a researcher in evolutionary genomics. The position is fully-funded by a Starting Grant from the European Research Council (ERC). The project aims to reveal the genomic basis of adaptive diversification and parallel evolution of a suite of exaggerated colors, morphologies, and behaviors - a syndrome - in wall lizards (genus *Podarcis*; Yang, Feiner et al., 2021, *Nature Communications*). The successful applicant will use existing and collect new whole-genome re-sequencing data from a range of wild lizard populations to unravel signatures of parallel evolution in a comparative context. The exact project plan will be adjusted based on the background and interest of the applicant. The starting date is negotiable and funding is available for three years.

Work duties -Active participation in the scientific design of the project -Carrying out basic molecular biology -Participation in field work -Generation and analysis of sequencing datasets (whole-genome re-sequencing) -

Dissemination of the acquired insights, including writing of scientific publications

Qualification requirements -A PhD, within the subject of the position -Very good oral and written proficiency in English -Expertise in the analyses of whole-genome datasets -Programming skills -Documented ability to develop and complete high-quality research -High intellectual capacity and problem-solving ability -Technical and analytical know-how, organization skills -Enthusiasm, dedication and an ability to work both independently and in a team

Meriting -Background in herpetology is advantageous

Terms of employment This is a full-time, permanent employment. A probationary period may be applicable. The starting date is 2022-01-01 or according to agreement. For more information about the position please contact Nathalie Feiner, [nathalie.feiner@biol.lu.se](mailto:nathalie.feiner@biol.lu.se).

Instructions on how to apply Applications should contain: -Motivation letter describing past research and future research interests (max. 2 pages) -Résumé/CV, including a list of publications

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

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## LundU Sweden ProtistSymbiosisGenomics

Dear colleagues,

Please see below a brief description of a post-doc position to study symbiotic interactions in protists at Lund University, Sweden.

More details and how to apply: <https://lu.varbi.com/what:job/jobID:425005/> Deadline: Oct. 14 2021 Contact information: Any questions can be directed to [courtney.stairs@biol.lu.se](mailto:courtney.stairs@biol.lu.se), but all applications must be submitted to 'Varbi'.

Subject description Every ecosystem on our planet is composed of a complex community of organisms. The function of these ecosystems is often dependent on interactions - or symbioses - between community members. In the microbial world, symbiotic interactions based on syntrophy (i.e., a type of mutualistic symbiosis where

nutrients are exchanged between organisms to allow for metabolic division of labour) are common, especially between prokaryotic organisms in anoxic environments. Such interactions are essential drivers of biogeochemical processes like global carbon, nitrogen, and sulphur cycling. Whether similar roles can be attributed to single-cell eukaryotes (protists) occupying these environments remains unclear owing in large part to our limited understanding of the biology, syntrophic potential, and metabolism of anaerobic eukaryotes.

The prospective post-doctoral fellow will be hosted by Dr. Courtney Stairs with support of the Crafoord Stiftelsen in the Biology Department at Lund University. The fellow will develop single-cell sequencing techniques to investigate the genomic and transcriptomic of individual eukaryotic cells and their resident microbial partners isolated from anaerobic environments. These data will be used to approximate metabolic interactions between the organisms. The candidate will have the potential to develop experimental detection methods to test these predictions in collaborations with Drs. Ryan Gawryluk (U. Victoria, Canada) and Edith Hammer (Lund University) as part of an international multi-disciplinary research initiative funded by the New Frontiers in Research Fund (awarded to Drs. Gawryluk and Stairs).

**Work duties** The work focuses on the development of genomic tools to study individual protist cells. Some of the planned methodology include anaerobic culturing, environmental sampling, 18S metabarcoding, split-pool barcoding transcriptomics, metagenomics, bioinformatics and phylogenetic analysis.

The main duties involved in a post-doctoral position is to conduct research. Teaching may also be included, but up to no more than 20% of working hours. The position shall include the opportunity for three weeks of training in higher education teaching and learning.

Best wishes,

Courtney

courtney.stairs@biol.lu.se

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## MaxPlanckInst AncientDiseases

Final call for a postdoc position on the epidemic dynamics of ancient disease outbreaks, in the Transmission, Infection, Diversification & Evolution Group (tide) led by Denise Kühnert.

Application portal: <https://lotus2.gwdg.de/mpg/mjws/-perso/shh-p037.nsf/application> Deadline: 15 September 2021

Thanks to the advances in ancient genome recovery, we are in the position to shed light on the dynamics of past disease epidemics by deciphering the “footprint” that past disease outbreaks left on pathogen genomes. Understanding the origins and demographic dynamics of ancient pathogens may facilitate a broader understanding of disease emergence.

Your tasks:

Phylogenetic analysis of ancient pathogen genomes in close collaboration with the Department of Archaeogenetics (DAG, MPI-EVA), led by Professor Dr. Johannes Krause.

Development, implementation and testing of Bayesian phylodynamic methods for the analysis of globally distributed ancient pathogen genomes.

Bayesian phylodynamic analysis of modern and ancient pathogen genomes.

Your qualifications:

- o Have or are about to obtain a PhD degree in a quantitative discipline such as Computational Biology, Mathematics, Statistics, Computer Science, Physics.
- o Experience analyzing genomic data employing phylogenetic methods
- o Strong research record
- o Strong interest in infectious disease dynamics
- o Experience in programming
- o Proficient English skills

The overarching goal of the Max Planck Institute for the Science of Human History is to explore the history of humans using state-of-the-art analytical methods. Scientists from different disciplines are working together to answer fundamental questions about the evolution of man from the paleolithic until today.

We offer an interesting and responsible job in a competitive, dynamic and stimulating international research environment. The Postdoc position is to be filled as soon as possible, initially limited until 31/05/2023, with

the possibility of a 2 year extension. Remuneration will follow the public service pay scale (TVöD Bund)) up to salary group E 13, according to qualification and experience. In addition, social benefits are paid according to the regulations of the Civil Service.

The Max Planck Society is committed to employing more individuals with disabilities and especially encourages them to apply. The Max Planck Society also seeks to increase the number of women in areas where they are underrepresented and therefore explicitly encourages women to apply. We are committed to encouraging diversity and actively challenging biases based on gender, nationality, ethnicity, sexual orientation, religion and other components of identity.

The Max Planck Society is supporting the compatibility of family and career and is certified according to the "berufundfamilie" audit.

Candidates are requested to submit the application in English as a single pdf file (max. 5 MB) including a cover letter (explaining research experience and reason for interest in this project), curriculum vitae, a list of publications, and copies of certificates. Upon uploading the file, candidates will be asked to submit names and contact details of three referees.

Information regarding the Max Planck Institute for the Science of Human History can be found at [www.shh.mpg.de](http://www.shh.mpg.de). Denise Kühnert <kuehnert@shh.mpg.de>

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## MichiganStateU 2 StatGenet Bioinfo MolBiol

Two postdoc positions are available in the laboratory of Wen Huang (<https://qgg-lab.github.io/>) at Michigan State University. Potential projects include: 1) mapping post-transcriptional (splicing, translation) regulation of gene expression in *Drosophila*; 2) massively parallel reporter assays to assess effects of DNA variants on post-transcriptional regulation in a high throughput manner; 3) development of genotype imputation pipelines in livestock animals; 4) identification and characterization of loss-of-function mutations by whole genome sequencing; 5) development of genomic prediction methods incorporating context dependent effects. Our lab uses *Drosophila* fruit flies, livestock animals including pigs and cattle, and data collected in human populations (e.g. UK Biobank) as research subjects and employs a combination of experimental and computational approaches.

We recruit postdocs with background in either molecular biology and/or statistics/bioinformatics. Postdocs are encouraged to develop their own projects that utilize existing data in the lab or generate new data.

Informal inquiry is highly encouraged. Please apply by sending current CV and a brief introduction explaining background, experience and career plan to Wen Huang ([huangw53@msu.edu](mailto:huangw53@msu.edu)).

"Huang, Wen" <[huangw53@msu.edu](mailto:huangw53@msu.edu)>

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## MonmouthU EvolutionaryGenetics

Postdoctoral position in Evolutionary Genetics at Monmouth University

The Phifer-Rixey Lab at Monmouth University is seeking applications for a Postdoctoral Researcher. The lab is engaged with a variety of integrative projects investigating evolutionary genetics in wild populations ([phifferixeylab.com](http://phifferixeylab.com)). The successful candidate will work closely with Dr. Phifer-Rixey to lead NSF-funded research combining field, bench, and computational approaches to investigate urbanization in house mice. In addition, the postdoctoral researcher will have the opportunity to gain classroom, mentoring, and outreach experience and to contribute to pedagogical research. Beyond research activities, the successful candidate will be supported in professional development, including conference presentations. Monmouth University is a primarily undergraduate institution located on the beautiful Jersey Shore.

This is a grant funded position, continuation after the first year is based on availability of funds and performance. A PhD (or equivalent international degree) is required for this position. More details on required and preferred qualifications as well as the application can be found here: <https://jobs.monmouth.edu/postings/14475> < <https://jobs.monmouth.edu/postings/14475> >

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

Megan Phifer-Rixey, Ph.D.

Department of Biology Monmouth University [phifferixeylab.com](http://phifferixeylab.com)

"Phifer-Rixey, Megan" <[mphiferr@monmouth.edu](mailto:mphiferr@monmouth.edu)>

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## MontpellierCEFE Eco-evolutionaryDynamics

We are looking for a post-doctoral fellow to work on a European Research Council (ERC) funded project on the Dynamics of Eco-Evolutionary Systems.

Where: CEFE, Centre for Evolution and Functional Ecology, CNRS, Montpellier, France Evolutionary Genetics and Ecology (EGE) group Starting date: November-December 2021 Duration: two years, full time Working place: GEE team in CEFE, Supervision: Patrik Nosil and colleagues

Project short description: Evolutionary and ecological processes can affect one another. For example, evolutionary adaptation within species can affect population dynamics or species interactions in communities, and thus ecosystem functioning. This position is part of a larger research project funded by the European Research Council (Consolidator Grant to P. Nosil) to investigate the community and ecosystem level consequences of evolution within a stick-insect species (*Timema cristinae*). The project will specifically test for reciprocal interactions and feedback loops between ecological and evolutionary processes. Most relevant for this advertised position, we seek candidates with experience in genomic analyses to test how genes within species affect ecological communities. Key publications pertaining to the project are Farkas et al. 2013 *Current Biology*, Nosil et al. 2018 *Science* and Villoutreix et al. 2020 *Science*.

Requirements: The applicant should hold a PhD degree or equivalent in biology. We are looking for a highly motivated candidate with a solid conceptual and formal background in evolutionary biology. Experience with genomic analysis of next-generation sequence data is required, and specific experience with genome-wide association mapping is a preferred asset. The candidate is also expected to aid with organizational aspects of the larger project, including organization of DNA sequencing, lab work, and field work (e.g., securing quotes for sequencing, ordering chemicals, arranging travel details for fieldwork, etc). Excellent written, verbal, and interpersonal skills, a strong work ethic, and the ability to think creatively and critically are desired. Key responsibilities will thus be genome-wide association mapping, comparative genomics, and organization of DNA sequencing and lab work.

Application documents; the applicants should submit:  
-A one-page letter with a summary of previous research experience and professional motivation - Curriculum Vitae - Names and emails of two professional references - An electronic copy of their scientific publications (minimum of three).

The application should be sent as one single PDF file to [patrik.nosil@cefe.cnrs.fr](mailto:patrik.nosil@cefe.cnrs.fr)

Applications received before September 30th 2021 will be given full consideration. Interviews will be held as soon as possible afterwards.

Thank you for your interest, Patrik Nosil Diriger de Recherche, CNRS

< <http://nosil-lab.group.shef.ac.uk/> >

Patrik Nosil <[p.nosil@sheffield.ac.uk](mailto:p.nosil@sheffield.ac.uk)>

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## Montpellier SARSCoV2 phylogenetics

Post-doctoral position for joint mathematical modeling and phylodynamics analysis of SARS-CoV-2 in Mexico City

The strong relationship between epidemiological and evolutionary dynamics of SARS-CoV-2 jeopardizes our capacity to forecast and control the current on-going pandemics. Studying the specific case of Mexico (which is one of the most affected countries in the world especially regarding the high prevalence of co-morbidity factors), the overall objectives of this project are (i) to quantify the cross-immunity between SARS-CoV-2 lineages and the protection level of each of the five vaccines employed in the country against each lineage, (ii) forecasting the competition outcomes between lineages and its potential epidemiological consequences and (iii) identifying how competition between lineages may yield to some evolutionary adaptations. These different steps will be performed in the context of Mexico City, and will be tested on an independent dataset from San Luis Potosí  $\frac{1}{2}$ , a medium-size city in Central Mexico.

Through a strong collaboration with the Biotechnology Institute of the National Autonomous University of Mexico (IBT-UNAM), the post-doctoral fellow will have to develop innovative mechanistic models that combine transmission dynamics and viral evolution and fit them to the epidemiological and phylodynamics observed on the field. This model can also serve to Mexican authori-

ties for decision-making purposes.

The profile we are looking for is a senior post-doc with experience in mathematical epidemiology and phylogenetics analysis. The post-doctoral fellow will be based in Montpellier (South of France) and will be co-supervised by Benjamin Roche (IRD, Montpellier) and Simon Cauchemez (Institut Pasteur, Paris). Applications (motivation letter and CV) have to be sent to benjamin.roche@ird.fr before September 23rd.

Labs:

Infectious Diseases: Vector, Control, Genetic, Ecology and Evolution (MIVEGEC) Centre for Ecological and Evolutionary Research on Cancer (CREEC)

Postal address: Centre IRD de Montpellier 911, Avenue Agropolis BP64504 34394 Montpellier cedex 5 France

Phone: +33610118444 e-mail: roche.ben@gmail.com  
web: <http://rocheben.github.io/> ROCHE Benjamin  
<roche.ben@gmail.com>

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## NHGRI-NIH Bethesda Bioinformatics Genomics

Computational and Statistical Genomics Branch National Human Genome Research Institute National Institutes of Health

Postdoctoral Fellowship in Bioinformatics and Evolutionary Genomics

A postdoctoral training position is currently available in the Computational and Statistical Genomics Branch (CSGB) of the National Human Genome Research Institute (NHGRI). The position is located in the laboratory of Andy Baxevanis, Ph.D., whose research group uses comparative genomics approaches to better-understand the molecular innovations that drove the surge of diversity in early animal evolution. The overarching theme of Dr. Baxevanis' research program is focused on how non-traditional animal models can be used to convey critical insights into human disease research, in line with the NIH Intramural Research Program's renewed emphasis on developing new animal models for the study of basic biology.

With this translational context in mind, Dr. Baxevanis' group is currently leading international efforts to sequence several cnidarian species that have the potential to serve as excellent models for the study of allorecognition. In collaboration with colleagues at the University

of Pittsburgh and the University of Maryland School of Medicine, we are seeking to recruit a postdoctoral fellow who will use computational approaches to advance our understanding of the genomic complexity of these invertebrate self/non-self recognition systems. The successful applicant will have the opportunity to develop and apply comparative genomic approaches to these and other large-scale genomic data sets, focusing on the evolution of specific protein families and biological pathways that may play critical roles in the immune response.

Candidates should have or be close to obtaining a Ph.D. or equivalent degree in bioinformatics, computational biology, computer science, molecular biology, or a closely related field. Candidates with a background in immunology and evolutionary biology are particularly encouraged to apply. Programming skills and experience in the application of computational methods to genomic data are highly desirable. Applicants must possess good communication skills and be fluent in both spoken and written English. The ability to learn how to use new software and quickly become expert in its use, critical thinking, problem-solving abilities, and the ability to work semi-independently are required.

The NIH Intramural Research Program is on the Bethesda, Maryland campus and offers a wide array of training opportunities for scientists early in their careers. The funding for this position is stable and offers the trainee wide latitude in the design and pursuit of their research project. The successful candidate will have access to NHGRI's established and robust bioinformatics infrastructure, as well as a 'Top 500' high-performance computing resource available through NIH's Center for Information Technology (CIT).

Interested applicants should submit a curriculum vitae, a detailed letter of interest, and the names of three potential references to Dr. Baxevanis at [andy@mail.nih.gov](mailto:andy@mail.nih.gov).

For more information, please visit <https://irp.nih.gov/pi/andy-baxevanis>

<https://irp.nih.gov/pi/andy-baxevanis>

The NIH is dedicated to building a diverse community in its training and employment programs.

“Baxevanis, Andy (NIH/NHGRI) [E]”  
<andy@mail.nih.gov>

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**Pasteur Paris**  
**Quantitative Population Genetics**

POSTDOC IN QUANTITATIVE and POPULATION GENETICS, Institut Pasteur, Paris

The Quintana-Murci laboratory (Unit of Human Evolutionary Genetics, CNRS UMR2000) is recruiting a post-doctoral researcher in quantitative and population genetics at Institut Pasteur, Paris. Our research is focused on how natural selection, human demography and lifestyle have shaped the patterns of diversity of the human genome and, ultimately, phenotype variation and disease risk (<https://research.pasteur.fr/en/team/human-evolutionary-genetics/>). Specifically, our projects aim to increase our understanding of (i) the genetic and evolutionary determinants of phenotype variation, (ii) the occurrence of natural selection, in its different forms and (iii) the demography history of human populations, with a focus on Africa and the Pacific.

The current postdoc project will be focused on exploring both the genetic architecture of phenotype variation in Polynesians (height, metabolic functions, skin pigmentation, immune response, etc.) and the evolutionary mechanisms that affect their distribution. The objective is to determine if population differences in these quantitative traits are the result of genetic drift or past or ongoing directional selection, a question that is key to understand human health disparities in the Pacific. This proposal, which combines quantitative genetics, population genetics, computational modelling and the development of statistical frameworks, will shed new light into the mechanisms of human genetic adaptation, during their last journey into uninhabited lands.

Requirements: - Ph.D. in quantitative genomics, statistical genetics, population genetics, bioinformatics, or computational biology - Strong programming and bioinformatics skills (R and Bash scripting, cluster computing) - Proficiency in English.

Duration: 2 years funding are available, and support will be provided to become self-financed through competitive fellowship applications.

Application Procedure: E-mail a CV, motivation letter and three reference names (in a single pdf file) to [quintana@pasteur.fr](mailto:quintana@pasteur.fr) by **\*\*November 30, 2021\*\***.

Please put "Postdoc Quantitative Genetics" in the sub-

ject line of your email. Interviews will be held soon after this date. The starting date can be any time during spring 2021.

Lluis QUINTANA-MURCI <[lluis.quintana-murci@pasteur.fr](mailto:lluis.quintana-murci@pasteur.fr)>

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**Pennsylvania State U**  
**Carnivorous Plant Evolution**

The laboratory of Tanya Renner at The Pennsylvania State University is seeking a post-doctoral scholar research associate to study carnivorous plant molecular biology and evolution. The successful applicant will participate in the research project "Conferring carnivorous plant-like traits by single gene transfers", in which multiple aspects of carnivorous plant biology will be studied by combining genomics, plant molecular biology, and biomechanics. The position is part of a Human Frontier Science Program (HFSP)-funded project involving the laboratories of Dr. Tanya Renner (The Pennsylvania State University, USA), Dr. Kenji Fukushima (University of Würzburg, Germany), and Dr. Ulrike Bauer (University of Bristol, UK). In collaboration with the labs of Dr. Fukushima and Dr. Ulrike, we will analyze how carnivory-related traits are regulated and test what happens when the traits are transferred to other plants. Research at Penn State will include characterizing the digestive fluid proteomes of various carnivorous plants, transcriptome analyses of carnivorous plant gene expression, as well as transfer of genes involved in prey digestion to model and crop plants to study their ability to improve resistance against herbivorous insects and microbial pathogens.

Minimum qualifications: - PhD degree in Molecular Biology, Plant Biology, Evolutionary Biology, or a related discipline. - Strong interest in plant biology. - Sound knowledge and skills in molecular biology.

Preferred qualifications: - Sound knowledge and skills in plant physiology and plant molecular biology, including plant transformation, transcriptomics, and proteomics. - Sound knowledge and skills in statistics and bioinformatic analyses of transcriptome and proteome data. - Demonstrated ability to work effectively both independently and with diverse teams of researchers. - Demonstrated ability to successfully and efficiently complete research projects and write peer-reviewed manuscripts.

Applicants are required to have a Ph.D. or equivalent doctorate in an appropriate field and be able to pro-



vide evidence that all requirements have been met for completion of the Ph.D. prior to the effective date of hire. This is a limited term appointment, funded for one one-year from date of hire, with excellent possibility of renewal. This position requires the following clearances: PA State Police Criminal Background check, PA Child Abuse History Clearance Form, and Federal (FBI) Fingerprint Criminal Background Check.

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. The position will be at the University Park campus of Penn State, within the town of State College. The 13-square-mile campus is home to more than 46,000 graduate, professional, and undergraduate students and more than 12,000 full time employees (faculty and staff). University Park is pedestrian and bike-friendly and features a mix of historic classroom buildings, modern architecture, and beautiful landscaping, including the Arboretum at Penn State which includes a 4+ acre Pollinator and Bird Garden. State College is a quintessential college town with a diverse population that offers residents many of the amenities of a larger urban environment, including a vibrant athletics program and performing arts community. State College is surrounded by multiple state parks which provide ample opportunity for outdoor recreation, and is within a few hours' drive of New York, Washington, Philadelphia, Baltimore and Pittsburgh. State College is consistently ranked among the nation's most livable cities. Additional information can be found at the Penn State Office of Postdoctoral Affairs (<https://www.research.psu.edu/opa>).

Interested candidates should apply via Penn State's job recruiting page at [https://psu.wd1.myworkdayjobs.com/en-US/PSU\\_Academic/-job/University-Park-Campus/Postdoctoral-Scholar-in-Plant-Molecular-Biology\\_REQ\\_0000018799-1](https://psu.wd1.myworkdayjobs.com/en-US/PSU_Academic/-job/University-Park-Campus/Postdoctoral-Scholar-in-Plant-Molecular-Biology_REQ_0000018799-1). Include a letter of interest, a resume, and contact information for 2-3 professional references. Review of applications will begin September 1, 2021 and applications will be accepted until the position is filled. Preferred start date: October 1, 2021, but this date is negotiable. Questions about the position should be directed to Dr. Tanya Renner, email: [tur158@psu.edu](mailto:tur158@psu.edu).



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To read the entire message look it up at <http://life.biology-mcmaster.ca/~brian/evoldir.html>

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## PennsylvaniaStateU EvolutionaryBiology

The Penn State Eberly College of Science invites applications for the Eberly Postdoctoral Fellowship, which are designed to attract exceptional early career scientists to Penn State to enhance their career goals in the vibrant, highly collaborative environment of the Eberly College of Science and the broader STEM community at Penn State. The Eberly College of Science including the Departments of Astronomy and Astrophysics, Biology, Biochemistry and Molecular Biology, Chemistry, Mathematics, Physics, and Statistics ranks in the top 10 universities in the United States and has annual research expenditures exceeding \$125 million. The departments of Astronomy and Astrophysics, Biology, Biochemistry and Molecular Biology, Chemistry, and Physics expect to appoint one or more Eberly Fellows in this round. Applications from early career scientists with exceptional promise in basic research in physics, biology, chemistry, molecular biology, astronomy, and/or applied research in health, energy, materials, or the environment, including interdisciplinary research, are encouraged. Fellows who wish to also gain training and experience in teaching may elect to receive mentored teaching experience. The successful applicants may work with more than one faculty member in the Eberly College of Science and are encouraged to engage and collaborate with the intellectual community across Penn State.

Eligibility, primary mentor, and appointment: Applicants must be a current doctoral student or have received a doctoral degree in science, statistics, or mathematics within three years before the start of the Eberly Postdoctoral Fellow appointment. Current doctoral students must have their doctoral degree prior to the start of their fellowship. Penn State doctoral students and postdoctoral scholars and fellows who are already appointed at Penn State are not eligible to apply. Applicants will need to indicate one of the faculty members in the above-mentioned five departments of the Eberly College of Science as their primary mentor, who will serve to advise and guide the research and career development of the Eberly Postdoctoral Fellow. Additional mentors can also be indicated; applicants may seek consultation before deciding on the primary mentor. Applicants should

consult the intended primary mentor before preparing the application. Eberly Postdoctoral Fellowships may be held for up to three years. After an initial appointment of one year, subsequent appointments are conditional on progress, funding, and eligibility. Fellows will receive a stipend of \$65,000, and \$5,000 per year in discretionary funds for travel and other research expenses.

Applications: Inquiry regarding the application process is welcome and should be sent to Ms. Melanie McKinney (mum1@psu.edu). Applications should be submitted at [https://psu.wd1.myworkdayjobs.com/-PSU\\_Academic/job/University-Park-Campus/Eberly-ResearchFellows\\_REQ\\_0000018751-2](https://psu.wd1.myworkdayjobs.com/-PSU_Academic/job/University-Park-Campus/Eberly-ResearchFellows_REQ_0000018751-2) and include (1) applicant's curriculum vitae of up to 4 pages, including publications, accepted and submitted manuscripts; (2) a two-page research statement summarizing research accomplishments and planned research at Penn State including its relationship with that of the proposed mentor; (3) the name of the intended primary mentor and any additional co-mentors, as relevant; (4) a onepage statement on diversity and inclusion; (5) three letters of reference, including one from the doctoral adviser. A letter from one of the proposed future mentor(s) is also strongly encouraged. Review of applications will start on September 1, 2021\* and continue until all positions are filled.

CAMPUS SECURITY CRIME STATISTICS: For more about safety at Penn State, and to review the Annual Security Report which contains information about crime statistics and other safety and security matters, please go to <http://www.police.psu.edu/clery/>, which will also provide you with detail on how to request a hard copy of the Annual Security Report. This publication is available in alternative media on request. The Pennsylvania State University is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applicants without regard to race, color, religion, age, sex, sexual orientation, gender identity, national origin, disability, or protected veteran status. U.Ed.SCI 22-06

\*Applications in the Biological Sciences will begin review October 1, 2021

“Hines, Heather M” <hnh19@psu.edu>

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## PennsylvaniaStateU EvolutionaryGenomics

The Lasky Lab at Pennsylvania State University is hiring a postdoctoral researcher.

The research topic is broadly the evolutionary genomics (population and quantitative) of environmental adaptation.

Some specific topics in the lab include: local adaptation, the evolution of gene expression plasticity, climate adaptation, and the evolution of biotic interactions.

Position here: [https://psu.wd1.myworkdayjobs.com/-PSU\\_Academic/job/University-Park-Campus/-Postdoctoral-Scholar-Lasky-Lab\\_REQ\\_0000018629-1](https://psu.wd1.myworkdayjobs.com/-PSU_Academic/job/University-Park-Campus/-Postdoctoral-Scholar-Lasky-Lab_REQ_0000018629-1)  
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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## RIBBiTR Pittsburgh 3 DiseaseEvolution

The newly created Resilience Institute Bridging Biological Training and Research (RIBBiTR) is looking for a few good postdocs!

RIBBiTR is a Biology Integration Institute, funded by the National Science Foundation to conduct research and training that integrates across sub-disciplines in the biological sciences to better understand how living systems achieve resilience to emerging infectious diseases and other global change stressors. The institute is comprised of researcher/educators from nine universities within the United States, each with expertise in research and training relevant to the group's focus on the amphibian disease, chytridiomycosis. The institute's postdocs will work collaboratively with each other and with other RIBBiTR team members to contribute to the core research and training missions of the institute. They will receive training and mentorship from institute researchers with diverse skill sets in integrative biology. We are building a cohort of postdoctoral researchers over time, with initial hires occurring over the next few

months.

In our initial set of hires, we are looking for researchers who are excited about leading field research teams in Panama, Brazil, or Northwest Pennsylvania (USA) to uncover ecological and evolutionary mechanisms by which amphibian communities are achieving resilience to the disease caused by fungal pathogen *Batrachochytrium dendrobatidis*. This work includes designing and conducting field surveys, collecting samples from amphibian hosts and their habitats, and collaborating on the analysis of these data within a resilience framework. As such, we seek applicants with diverse backgrounds/training, including amphibian physiology/immunity, microbiology, population genomics, and population and community ecology. We also seek applicants with expertise relevant to applying environmental DNA (eDNA) metabarcoding methods to measure changes in aquatic community structure. Our initial hires will have primary mentors at the University of Nevada, Reno (Dr. Jamie Voyles), the University of Alabama (Dr. Gui Becker) and the University of Pittsburgh (Dr. Cori Richards-Zawacki).

Successful applicants will have a Ph.D. in ecology, biology, or a related field, the ability to organize and lead field studies, strong writing skills, the ability to work independently and collaboratively, and a strong record of, and interest in continuing, mentorship and outreach. To apply, please send (1) a cover letter, (2) a CV, (3) a statement of research interests/experiences, (4) a one-page description of how your past or anticipated scholarly activities (research, teaching, service) demonstrate a commitment to diversity, inclusion, and equity, and (5) names and contact information for three references. All of the above should be compiled into a single pdf document and sent to Dr. Richards-Zawacki (cori.zawacki@pitt.edu). Review of applications will begin on October 1, 2021 and continue until candidates are found.

Funds are available for one year with the possibility of additional years pending satisfactory progress. Starting salary is dependent upon experience. RIBBiTR's constituent institutions are Affirmative Action/Equal Opportunity Employers and our team greatly values equality of opportunity, human dignity, and diversity. Women and people of identities that are underrepresented in STEM are especially encouraged to apply.

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Corinne L. Richards Zawacki, Ph.D. (pronouns: she/her)  
email: cori.zawacki@pitt.edu

Professor, Department of Biological Sciences and  
Director, Pymatuning Laboratory of Ecology

University of Pittsburgh

“At night I went out into the dark and saw a glimmering star and heard a frog and nature seemed to say, well do not these suffice?” - Ralph Waldo Emerson

Cori Zawacki <cori.zawacki@pitt.edu>

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## RiceU PhylogenomicsMethodology

Postdoc positions in computational genomics / phylogenomics: developing methods for phylogenomic analysis or cancer genomics

Rice University

Luay Nakhleh's homepage <http://www.cs.rice.edu/~nakhleh> Available immediately.

Luay Nakhleh's group is seeking two post-doctoral fellows to work on developing computational methods for cancer genomics (mainly single-cell DNA sequencing data) and phylogenomics (inference under the multi species coalescent with hybridization, recombination, etc.).

About the research projects:

Nakhleh's group has been developing methods for inferring phylogenetic networks to model reticulate evolutionary histories (almost all are implemented in PhyloNet, <http://bioinfocs.rice.edu/phyloNet>). The group is currently looking into developing methods that account for recombination as well. Furthermore, the group started working for the last five years on single-cell DNA data in cancer, and are developing computational methods for single nucleotide variant and copy number aberration identification from such data. The work has a phylogenetic aspect to it as well.

About the positions:

There is funding for two years for each of the positions, with the possibility of extension beyond that. The post-docs will be affiliated with the Department of Computer Science at Rice University.

Qualifications:

PhD in computer science, computational biology, statistics, or other related fields. It is important that the candidate is interested in method development and software implementation. Background in biology is desirable, but not required.

Salary: In the \$60K-\$70K range and commensurate

with qualifications and experience.

How to apply:

Please send an email to Luay Nakhleh (nakhleh@rice.edu) explaining your interest in the position and attaching a CV that lists your publications and educational background. Also, please include the names and contact information of three references familiar with your work.

About Rice University and Houston: Rice University is a private university with a strong reputation for academic and research excellence. Rice attracts outstanding undergraduate and graduate students from across the nation and around the world. Rice provides a stimulating environment for research, teaching, and joint projects with industry. The department of computer science and the university have access to superb computational research facilities, both on-campus and in our networked off-campus data center. The university is located across the street from the Texas Medical Center, one of the premiere centers for medical research in the United States. Houston's energy, medical, aerospace, and technology communities together make the city a hub for computational innovations across real-time, embedded and high-performance systems, with an increasing demand for data analytics across this spectrum. As the fourth-largest city in the USA, Houston is a cosmopolitan destination with a vibrant economy and world-class performing arts, museums, sports, and dining venues that are all located in close proximity to Rice.

We are committed to increasing representation of women, minorities, people with disabilities, and veterans in disciplines in which they have historically been underrepresented; to accelerate progress in building a faculty and staff who are diverse in background and thought; and we support an inclusive environment that fosters interaction and understanding within our diverse community.

Rice University is an Equal Opportunity Employer with commitment to diversity at all levels, and considers for employment qualified applicants without regard to race, color, religion, age, sex, sexual orientation, gender identity, national or ethnic origin, genetic information, disability or protected veteran status.

Dr. Luay Nakhleh 6100 Main Street, MS 132 Houston, TX 77005 <http://www.cs.rice.edu/~nakhleh> nakhleh@rice.edu

Luay Nakhleh <nakhleh@rice.edu>

## SBBG UC California Santa Cruz Landscape Genomics

SBBG.and.UCSC.Landscape.Genomics.Gaviota\_Tarplant

Description

The Santa Barbara Botanic Garden (SBBG) and University of California Santa Cruz (UCSC) are jointly soliciting candidates for a full-time, exempt, two-year postdoctoral position for a project titled: Landscape and population genomics of the Gaviota tarplant (*Deinandra increscens* subsp. *villosa*; Asteraceae) for long term conservation. This is a temporary, two-year position, with an extension for one additional year likely.

This is a multi-year project with frequent travel between Santa Cruz and Santa Barbara throughout the project, and with regular, virtual meetings with Federal, State, and local regulatory agencies and with environmental consultants. The primary work location will be either at SBBG or UCSC, to be finalized in consultation with the selected applicant. Participation in training and professional development activities offered by the UCSC Paleogenomics Lab, by various California conservation genomics research groups, and by SBBG and affiliated botanical collections curators, is required. This position reports to Dr. Matt Guilliams, Tucker Plant Systematist and Curator of the Herbarium at SBBG, and will be jointly mentored by Dr. Rachel Meyer, Adjunct Assistant Professor at UCSC.

Requested Documents: Application should include: a full CV, and a 1-2 page cover letter which includes: a statement describing the applicant's previous research experience and future postdoctoral objectives. Please also provide contact information for two references. Application materials should be submitted via <https://recruiting.paylocity.com/Recruiting/-Jobs/Details/678197> by September 15, 2021.

Requirements

Essential Duties:

Sample collection along the coast in Central California in collaboration with project partners; Reference genome assembly of Gaviota tarplant; Whole genome resequencing of Gaviota tarplant; Landscape and population genomic analyses including GWAS, simulations, and modeling of potential adaptive or maladaptive evolution; Professional presentations; Manuscript preparation.

**Qualifications and Experience:**

Ph.D. in Biology, Bioinformatics, Computer Science, Genetics, Plant Science, Biomolecular Engineering or related field must be in hand at time of initial appointment. Experience in bioinformatic analysis of whole genome resequencing data is strongly encouraged. At least one previous publication in the following topics is required: plant evolution, conservation genomics, molecular ecology, landscape or population genetics or genomics, population genetics theory, or biostatistics. Experience with wet lab techniques such as DNA library preparation experience is strongly encouraged. Experience doing landscape genetic/genomic or demographic modeling with genetic and ecological traits is strongly encouraged. The candidate must demonstrate excellent writing, organization, and communication skills.

**Physical Requirements:**

Ability to stand/walk for extended periods of time, bend, squat and hike rugged trails, and safely lift and carry boxes of specimens and supplies (30+ lbs.); Tolerance of an outdoor work environment. Exposure to indoor and outdoor environmental conditions, including temperature fluctuations, rain, dust, allergens, poison oak, insects, wild animals, and sun exposure.

Compensation Range: \$60,000 to \$70,000, DOE

Benefits: Health, dental, and vision benefits available, as well as 403b, which includes structured employer match

Rachel Meyer <rameyer@ucsc.edu>

rameyer@ucsc.edu

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## Sheffield York Convergence Genomics

We are looking for two postdoctoral research associates to work on a NERC-funded project “The genetic basis of convergence across evolutionary time” led by Kanchon Dasmahapatra at the University of York and Nicola Nadeau at the University of Sheffield.

This project seeks to understand how the genetics of convergent evolution differs with differing evolutionary timescales. We will determine whether the genetic mechanism of convergence (collateral evolution, parallel evolution and divergent genetic mechanisms) depends on the relatedness of the species, the effect size of the

loci involved and/or conservation of the genetic pathways controlling the phenotype. In South America there are mimicry rings in which many defended species converge on near identical colour patterns. This project will investigate the genetic basis of convergent mimicry in wing patterns among 18 species of butterflies and moths, which include the well-studied *Heliconius* butterflies. This is a unique system in the Lepidoptera in which we know that some recently diverged lineages have converged in defensive colouration by collateral evolution, whereas other clades have achieved similar phenotypes despite diverging over 100 million years ago. This provides an ideal model system in which to explore the likelihood of different mechanisms of convergence among lineages at a range of evolutionary timescales.

One of the PDRAs will be based in Sheffield, supervised by Nicola Nadeau (<http://nadeau-lab.group.shef.ac.uk>). This postdoc will lead the bioinformatic analysis of population genomic and gene expression data sets to identify genes controlling within-species colour-pattern variation in multiple species of ithomiine butterflies and Chetone day-flying moths.

For more information and to apply for this post: <https://jobs.shef.ac.uk/sap/bc/-webdynpro/sap/hrrcf.a.posting.apply?PARAM=-cG9zdF9pbmN0X2d1aWQ9NjEyRTAzMDUwNjQ0MUIzQ0UxMDAwMw=&sap-client=400&sap-language=EN&sap-accessibility=X&sap-ep-themeroot=/SAP/PUBLIC/-BC/UR/uos#> Closing date: 29th September 2021. Start Date: 1st November 2021 (negotiable).

For informal enquiries email [n.nadeau@sheffield.ac.uk](mailto:n.nadeau@sheffield.ac.uk)

The second PDRA will be employed by the University of York and supervised by Kanchon Dasmahapatra (<https://www.york.ac.uk/res/dasmahapatra/>). This postdoc will work in Peru and Ecuador (with our partner, Caroline Baquet, at IKIAM University), collecting samples, breeding stocks of these species and assessing gene expression in situ. This position will be advertised shortly, to start in April 2022.

For informal enquiries email [kanchon.dasmahapatra@york.ac.uk](mailto:kanchon.dasmahapatra@york.ac.uk)

Nicola Nadeau <[n.nadeau@sheffield.ac.uk](mailto:n.nadeau@sheffield.ac.uk)>

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## Simon Fraser U Disease Evolution

Postdoctoral Fellowship in genomic epidemiology, Simon Fraser University

The MAGPIE group ([www.sfu.ca/magpie](http://www.sfu.ca/magpie)) at SFU is seeking an enthusiastic postdoctoral researcher or senior scientist to work in the area of infectious disease modelling and genomic epidemiology. The successful applicant will primarily support and lead research on COVID-19 and/or tuberculosis genomic epidemiology, with a focus on model development and estimation of transmission dynamics using information derived from genomic data to advance understanding of infectious disease outbreaks. The post-holder will be encouraged and supported in developing their own research program in collaboration with local, national and international collaborators and partners including public health agencies and researchers, and will have the opportunity to work with a wide portfolio of genomic and epidemiological data sources. Projects can be tailored to suit the candidate's research interests and expertise.

You will be joining a multidisciplinary team with a broad range of interests across mathematics, statistics and biology. Specific ongoing projects include: modelling the interplay between interventions (vaccination, antibiotic treatment) and pathogen diversification, quantifying selection and evolution in pathogen populations, performing phylogenomic and spatial studies of TB transmission, and developing statistical methods for estimating epidemiological parameters in infectious disease outbreaks. The group is based at the SFU campus in Burnaby (part of the greater Vancouver area), British Columbia, Canada.

Applicants must have a PhD degree or equivalent awarded in the last five years (certain career interruptions may extend this period), or have submitted their thesis at the time of application (degree must be awarded before any appointment). The ideal applicant will have a strong computational background, with experience in several of the following: analysis of genomic data; development and implementation of bioinformatics pipelines; infectious disease modelling; relevant areas of biostatistics; population genetics. We will also consider applicants coming from computer science and mathematics with relevant experience and a strong interest in evolutionary biology and/or genomic epidemiology. Programming skills in a relevant bioinformatics language (Python, R, etc) are essential. Candidates will also be expected to prepare manuscripts for peer-reviewed publication, deliver research presentations, and be involved in the daily life of the research group.

This is a 1-year position with a second-year extension conditional on performance. Salary will be commensurate with skills and qualifications and is expected to be in the range of CA\$60-75,000. There may also be opportunities for teaching, conditional on course availability in the relevant department(s).

Candidates should submit their CV with a cover letter plus a Research Statement (max 1 page) that outlines your research interest in genomic epidemiology and suitability for the proposed research, and how the proposed research contributes to your long-term career goals. Please send these application materials as a single PDF document to Mark Campbell ([mark\\_campbell@sfu.ca](mailto:mark_campbell@sfu.ca)). We will begin to review applications on September 22, 2021. The start date will be negotiable, but as early as possible.

Ailene MacPherson <[ailene\\_macpherson@sfu.ca](mailto:ailene_macpherson@sfu.ca)>

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## SLU Sweden ConiferPopGen

The department of Plant Biology, Swedish University of Agricultural Sciences is looking for a postdoc in population and comparative genomics to work on a conifer genomics project. In a collaboration between SLU and SciLifeLab in Uppsala we have recently completed two chromosome-scale genomes for Norway spruce and Scots pine and are now looking for a motivated person to analyse large scale re-sequencing data from hundreds of individuals from the two species. We are looking for a candidate that is interested in using re-sequencing data to answer questions in population or comparative genomics. The right candidate is expected to work in a small team focusing on analysing the re-sequencing data but will be given large intellectual freedom to develop their own line of research based on the data. For more information and to apply please refer to the official advertisement (link below). Deadline for applications is October 15.

Qualifications - applicants must:

- \* have a doctorate degree in genetics, genomics, bioinformatics or related fields that the employer considers equivalent and experience in performing population genomic analyzes. As postdoctoral appointments are career-developing positions for junior researchers, we are primarily looking for candidates with a doctoral degree that is three years old at most. \* have excellent knowledge of English in both spoken and written form, as English is the working language of the research group. \* must have a good ability to conduct independent research, take initiative, ask pertinent scientific questions, collaborate and communicate with other people.

Merits

Creativity, motivation and drive are important personal

characteristics. The applicant should have a genuine interest in working with issues related to population and comparative genomics and quantitative genetics (GWAS). Documented expertise in bioinformatics and experimental design related to the handling of large genomic datasets is a merit. “Reproducible research” and “FAIR data” are central concepts within the project.

Official advertisement: <https://www.slu.se/en/about-slu/work-at-slu/jobs-vacancies/?rmpage=-job&rmjob=5418&rmlang=UK> Pär K. Ingvarsson Professor, Plant genomics and plant breeding Linnean Center for Plant Biology Department of Plant Biology Swedish University of Agricultural Sciences Uppsala BioCenter PO-Box 7080 SE-750 07 Uppsala, Sweden phone: +46-18-673230, <http://pkilab.org> du skickar e-post till SLU så innebär detta att SLU behandlar dina personuppgifter. Får att lida samma mer om hur detta gäller till, klicka här < <https://www.slu.se/om-slu/kontakta-slu/personuppgifter/> >

E-mailing SLU will result in SLU processing your personal data. For more information on how this is done, click here < <https://www.slu.se/en/about-slu/contact-slu/personal-data/> >

Pär Ingvarsson <par.ingvarsson@slu.se>

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## Smithsonian NMNH GradAndPostdocFellowships

Applications are open for: 1. Smithsonian Institution Fellowship Program (SIFP <https://fellowships.si.edu/opportunity/smithsonian-institution-fellowship-program-sifp>). These are 10 week or 1-2 year graduate student fellowships or 2 year postdoctoral fellowships.

2. Smithsonian Biodiversity Genomics Fellowship Program (SBGFP <https://fellowships.si.edu/opportunity/smithsonian-biodiversity-genomics-postdoctoral-fellowship-program-biog>). This is a 2 year postdoc to work on genomics.

3. Smithsonian Burch Fellowship in Theoretical Medicine and Affiliated theoretical science (Burch <https://fellowships.si.edu/opportunity/george-burch-fellowship-theoretical-medicine-and-affiliated-theoretical-science>). These are 2 year postdocs that needs some connection to medical applications, though looking back at previous ones it obviously doesn't have to be immediate.

Submission deadline is 1 November 2021.

If you are interested in applying, first contact an appropriate mentor to discuss your proposed project well ahead of the submission deadline. To find possible mentors check out <https://naturalhistory.si.edu/research/-invertebrate-zoology> or <https://ofi.si.edu/wp-content/uploads/2020/11/SORS-2021-1.6.pdf>. Please share this notice with your communities, colleagues, and potential applicants!

Want to know more about fellowships offered SI-wide? <https://fellowships.si.edu/> Cheers - Karen

Karen Osborn Research Zoologist/Curator of Polychaetes, Peracarids and Plankton Department of Invertebrate Zoology w 202.633.3668 osbornk@si.edu <http://orcid.org/0000-0002-4226-9257> Mail: Department of Invertebrate Zoology, Smithsonian National Museum of Natural History, MRC-163 P.O. Box 37012, Washington, D.C. 20013-7012 USA

Courier Address: Smithsonian Institution, MR 0163, Natural History, West Loading Dock, 10th and Constitution Ave NW, Washington, D.C. 20560

OsbornK@si.edu

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## Smithsonian Panama ForestDynamics

Smithsonian Tropical Research Institute

September 1, 2021

**\*NOTICE OF OPENING\***

Applications for a \*Post-doctoral Research Scientist\* will be accepted effective immediately.

The Smithsonian Tropical Research Institute (STRI [www.stri.si.edu](http://www.stri.si.edu)) seeks a talented and highly motivated post-doctoral scientist to play a leading role in research comprising integrated field, analytical, and modeling approaches. The project will quantify plant metabolomes and explore how shared metabolomes affect plant-insect and plant-microbe interactions and plant recruitment, growth, and survival. Results will provide new insights about the way chemical variation affects plant defense, plant-insect and plant-microbe interactions, and mechanistically underexplored processes such as negative density dependence that are increasingly the focus of theoretical models of forest dynamics and the maintenance of tree species diversity. The project is situated

in Panama at STRI, with extended visits to the University of Texas at Austin to work with collaborators and for additional professional development and training opportunities. STRI is a lively, collaborative research community, with 37 Staff Scientists, a similar number of post-doctoral fellows, and over 1,200 international scientists visiting annually.

Candidates should have expertise in chemical ecology, Bayesian analysis and/or ecological modeling with strong computational and writing skills. Training will be provided for planned experiments, with latitude for related independent research and professional development mentoring. The project provides 3 years of funding and we expect that the planned projects will provide opportunities for multiple lead author publications and ownership of future research directions. There are funds to support travel to international meetings and visits to collaborator labs in the US. The location at the beginning of the project is flexible and will allow the individual to work at the University of Texas at Austin (Brian Sedio lab) or work remotely prior to being able to safely travel to Panama. Ability to communicate with a wide range of people in a multicultural environment will be considered.

**To Apply:** Interested candidates should submit a single PDF file including cover letter, curriculum vitae, statement of research accomplishments and interests, significant publications, and the names and contact information of three references to S. Joseph Wright at [wrightj@si.edu](mailto:wrightj@si.edu). The position is open until filled; review of applications will begin on 1 November 2021.

\*STRI does not discriminate in employment on the basis of race, color, religion, sex (including pregnancy and gender identity), national origin, political affiliation, sexual orientation, marital status, disability, genetic information, age, membership in an employee organization, retaliation, parental status, military service, underrepresented minorities or other non-merit factor. We are an Equal Opportunity employer, committed to diversity in our workforce.\*

Brian E. Sedio Assistant Professor Department of Integrative Biology University of Texas at Austin [sedio@utexas.edu](mailto:sedio@utexas.edu)

Research Associate Smithsonian Tropical Research Institute Panama [SedioB@si.edu](mailto:SedioB@si.edu)

Brian E Sedio <[sedio@utexas.edu](mailto:sedio@utexas.edu)>

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## Sophia-Antipolis France InsectPopGenomics

A 22-month post-doctoral position is available at INRAE Sophia-Antipolis, France. Please find below the full job description.

\_\*22-month post-doctoral position - Measurement of the evolution of the genetic load during biological invasions using population genomics approaches.\*\_

/\*Work environment, missions and activities\*/

Context: Biological invasions are a major component of global change. Yet, it is still not understood why some introduced populations become invasive and others do not. Demographic processes appear to be a key factor: after the introduction of small numbers of individuals into a new environment, levels of inbreeding and drift increase significantly, and deleterious mutations may become exposed to natural selection. This can have two opposite consequences: either fixation or purging of deleterious mutations. One hypothesis in invasion biology is that the populations that will actually become invasive are those that have purged some of their deleterious alleles.

Project objective: Using genomic data already available or being acquired by the host team, the post-doctoral fellow will be in charge of population genomics analyses aiming at quantitatively and qualitatively comparing the genetic load of native and invasive populations of a dozen insect species. The post-doctoral fellow will have the opportunity to propose and explore different methodologies and analyses to evaluate (i) the evolution of the genetic load during the invasion of each species, and (ii) the generality of the observed features thanks to the multispecies approach.

Available resources and expected analyses: The position is funded by the ANR GENLOADICS project. Sequencing of native and invasive populations (WGS pool-seq) of at least five species will already be available at the beginning of the post-doc. Five to seven additional species will be sequenced during the course of the contract. The post-doctoral fellow will have access to computing servers and clusters. The expected analyses are the following: (i) identification of polymorphism from WGS sequencing data of pools of individuals; (ii) polarization of identified alleles based on sequences of closely related species; (iii) identification and categorization of



neutral and deleterious alleles; (iv) characterization of the demographic history of populations (invasion routes, bottlenecks severity), (v) quantification and comparison of the genetic load of native and invasive populations, and (vi) analysis of all 10 to 12 species studied in order to identify possible generic patterns that could be associated with the success of biological invasions.

Scientific environment: The post-doctoral fellow will be hosted for a period of 22 months at the Institut Sophia Agrobiotech (ISA), INRAE PACA, in Sophia-Antipolis, France. The work will be performed in the Biology of Introduced Populations (BPI) team, which includes about ten permanent staff (researchers, engineers, technicians) working in the fields of evolutionary biology, population genetics, ecology and bioinformatics. â€

/\*Candidate requirements\*/

Education required: PhD in population genetics/genomics or evolutionary biology. Skills: The post-doc will have a strong background in bioinformatics and population genomics, programming (R, perl, python ...) and writing skills. He/she should be independent, autonomous and willing to work in a group. Additional experience appreciated: Experience in the field of invasion biology is a plus.

/\*Additional information\*/

———— Starting date: February 2022 ———— Contract: 22-month fixed-term contract, full-time. ———— Salary: 2520 to 2940€gross per month according to experience. ———— Application: Applications in English or French, including a detailed CV with list of publications, a letter of motivation and the names and contact details (e-mail and telephone) of two referees who can be contacted if necessary, must be submitted to Eric Lombaert (eric.lombaert@inrae.fr) and Emeline Deleury (emeline.deleury@inrae.fr) before October 29, 2021. ———— Link: <https://jobs.inrae.fr/ot-13334> \*/Presentation of INRAE/\*

The French National Research Institute for Agriculture, Food and the Environment (INRAE) is a public research institution bringing together a working community of 12,000 people, with 268 research units located in 18 sites throughout France. INRAE is one of the world's leading institutions in agricultural and food sciences, plant and animal sciences. Its research aims to build solutions for multi-performing agriculture, quality food and sustainable management of resources and ecosystems.

– Eric Lombaert INRAE - Centre de Recherches de Sophia Antipolis 400 Route des Chappes BP 167 06 903 Sophia Antipolis CEDEX FRANCE tel : (33) 4 92 38 64 81 tel2 : (33) 6 80 15 77 77 fax : (33) 4 92 38 64 01

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## Sunnybrook TorontoU SarsCov2Phylogeny

# Project Title

Comparing inter-provincial SARS-CoV-2 dynamics within vulnerable populations

# Position Description

Samira Mubareka (Sunnybrook Research Institute/University of Toronto) and Finlay Maguire (Dalhousie University) are seeking a co-supervised postdoctoral fellow (hired via University of Toronto) for a collaborative genomic epidemiology project with public health partners. The postdoctoral fellow will lead phylogeographic and phylodynamic analyses of linked viral genomic and epidemiological data to investigate the impact of varied public health measures on SARS-CoV-2 dynamics in vulnerable populations across Ontario and Quebec during the 3rd wave of the COVID-19 pandemic in Canada.

The postdoctoral fellow will be responsible for coordinating access to genomic and epidemiological datasets with public health partners and using said data to estimate epidemiological parameters, viral dynamics, and potential impact of viral control measures across social determinants of of acquisition and transmission risk.

Applicants should have the following qualifications:

\* A PhD in a relevant field such as bioinformatics, epidemiology, or statistics \* Experience with phylogenetic inference methods and tools

\* Familiarity with epidemiological statistics and modelling

Experience with SARS-CoV-2 data, and data analysis skills such as cleaning, visualisation, and analysis-related programming (e.g., python/R) is an asset.

The postdoctoral fellow will be expected to present their work at national and international conferences, and publish their work in peer-reviewed journals.

The position is available immediately, however the starting date as well as remote/physical location can be

flexible. Interested applicants should submit a cover letter, CV, and the names of three academic references to [finlay.maguire@dal.ca](mailto:finlay.maguire@dal.ca) by 2021-10-01

Finlay Maguire <[Finlay.Maguire@dal.ca](mailto:Finlay.Maguire@dal.ca)>

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## UBuffalo CancerDevoEvoMed

POSTDOC - Cancer DevoEvoMed

Development of CRISPR genome editing in elephant, whale, and bat cells.

Applications are invited for a postdoctoral (or other) position in the evolution of cancer resistance in large, long-lived species. Specifically, this position is for the establishment of new cell culture models to study the evolution of cancer resistance in elephants, whales, and bats including, but not limited to, CRISPR genome editing in cells from these species.

The position is in lab of Vincent Lynch in the Department of Biological Sciences at the University at Buffalo, SUNY. Our lab uses evolutionary genomics and comparative cell biology to investigate the genetic and molecular mechanisms that underlie the origins of cancer resistance and healthy aging in large bodied and long-lived species such as elephants, whales, bats, and tortoises.

Specific research involves comparative genomics to identify genetic changes that might underlie/contribute to these traits and comparative cell biology to characterize inferences from the comparative genomic analyses. The postdoc can also develop new research directions consistent with these projects, most importantly the development of CRISPR genome editing in primary cells from elephants, whales, and bats, and potentially other species. Specific skills needed for this position vary, but experience with cell culture and CRISPR is essential; Experience in generating iPS cells is preferred but not required. The postdoc will also receive guidance and support for career development, tailored to long-term goals including both academic non- academic careers.

The University at Buffalo, SUNY offers an exceptional environment for research and training in, with strong interaction among genomics research groups across schools and departments. The Department of Biological Sciences also offers numerous opportunities for collaboration.

Qualifications: - Ph.D. in biology. - Experience in cell culture - Experience with CRISPR genome editing

- Experience in developing iPS cells a plus, but not required - Record of research productivity, including publications/preprints demonstrating skillsets

Application materials: - CV (preprints encouraged to demonstrate skillsets) - Brief description of past and future research interests - Contact information for three references, upon request

The University at Buffalo, SUNY is committed to active recruitment of a diverse Faculty, research support specials (including post-docs, research technicians, and research specialists), as well as a diverse student body. The University is an Affirmative Action/Equal Opportunity Employer of women, minorities, protected veterans and individuals with disabilities and encourages applications from these and other protected group members.

The position is open immediately until filled, with a flexible start date, and anticipated to last for three years. Applications, questions, and informal inquiries are welcome and directed to Vincent Lynch <[vjlynch@buffalo.edu](mailto:vjlynch@buffalo.edu)>.

Vincent J. Lynch, Ph.D. Associate Professor Department of Biological Sciences University at Buffalo, SUNY 551 Cooke Hall Buffalo NY, 14260

[vjlynch@buffalo.edu](mailto:vjlynch@buffalo.edu)<<mailto:vjlynch@chicago.edu>>

“These days the most useful thing we can do is to repudiate, and so we repudiate” - I. Turgenev, *Fathers and Sons* (1862)

“There is a grandeur in this view of life, with its several powers, having been originally breathed into a few forms or into one; and that whilst this planet has gone on cycling according to the fixed laws of gravity, from so simple a beginning endless forms most beautiful and most wonderful have been, and are being, evolved.” -C. Darwin, 1859

Vincent Lynch <[vjlynch@buffalo.edu](mailto:vjlynch@buffalo.edu)>

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## UCalifornia Riverside ConservationPopulationGenomics

Postdoctoral position in Conservation and Population genomics at University of California, Riverside

There is an opening in the Nability lab at the University of California, Riverside to study how insect genomes vary with environment. One project is funded by the California Conservation Genomics Program (<https://www.ccgproject.org/>) and will involve analysis of popu-

lation resequencing data and genome curation. A second project funded by the USDA will involve analysis of population resequencing data across the US and Europe. Both projects will link variation in insect genomes to their environment, including rare and cultivated host plant species. Both projects require travel to collect samples, providing an excellent opportunity to explore the natural regions of the California Floristic Province.

The expectations of the position include the quasi-independent execution of bioinformatics and molecular analyses, willingness to learn new analyses, and active engagement in mentoring students and disseminating science. The ideal candidate will have experience in genome sequencing and resequencing approaches, a strong publication record, and a PhD in a Biology-related discipline within the past three years.

The University of California, Riverside is a highly diverse and rapidly growing campus located in the historic city of Riverside, California. 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, and we especially encourage applications from individuals that are members of groups historically underrepresented in higher education. The campus is located within one hour of downtown Los Angeles, a city that provides world-class cultural opportunities. Riverside also provides easy access to numerous outdoor recreational areas, including forest, alpine, ocean, and desert environments.

The position is available beginning winter or early spring 2022 and will be for up to two years, contingent upon performance. Evaluation of applications will begin as they are received, and the position will remain open until a suitable candidate is found. Applications must include a CV, a short cover letter describing research interests and career goals (2 pages max), and the names and emails of 3 references. Application materials should be emailed to Dr. Paul Nabity ([pauln@ucr.edu](mailto:pauln@ucr.edu)) with the subject line "Population Genomics Postdoc."

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, protected veteran status, or any other characteristic protected by law.

– Dr. Paul D. Nabity, Assistant Professor of Plant-Insect Ecology Department of Botany and Plant Sciences University of California, Riverside <http://www.nabitylab.org> Pronouns: he/him/his

[pauln@ucr.edu](mailto:pauln@ucr.edu)

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## UCalifornia SanDiego Microbiomes

A postdoctoral position is available in the Jackrel Lab in the Division of Biological Sciences - Section of Ecology, Behavior and Evolution at UC San Diego. Start date is flexible. The position is available for one year, and renewable for up to four years dependent on progress. This candidate will pursue avenues related to an NIH-funded research program aimed at advancing our understanding of the role of host genetics and the environment in regulating assembly of microbial communities, short-term changes in these communities through ecological succession, and long-term changes through evolutionary processes. In order to better understand complex biological networks, our lab seeks to elucidate the underlying structure of ecological interactions within host microbiomes in order to predict when and how microbiomes might confer beneficial versus deleterious functions associated with their host. Our lab aims to advance fundamental understanding of host-microbiomes by leveraging single-celled eukaryotic phytoplankton as a highly-tractable experimental system. We seek a postdoctoral scholar to:

- (1) Harness the diversity of phytoplankton with bacterial-omics approaches to test how microbiomes assemble in response to host genetics. Use bacterial gene expression responses to host genetics, in tandem with fluctuating environmental conditions, to determine the host genetic x environmental forces that drive microbiome assembly of eukaryotic microbiomes.
- (2) Evaluate mechanisms of microbiome change for maintenance of host homeostasis in fluctuating environments, including ecological shifts in bacterial taxonomic composition, shifts in bacterial gene expression, and bacterial strain evolution.
- (3) Leverage classic community ecology theory to characterize traits of transient versus stable microbiome networks. Quantify bacteria-bacteria interaction strengths within naturally assembled and engineered microbiomes to understand how network structure contributes to transitions between host health and disease states.

Qualifications:

- Ph.D. or equivalent degree in Microbiology, Ecology, Evolution, Genetics or related fields.
- Expertise in one or more of the following is desired (and

broadly defined): empirical community ecology, field and lab-based environmental microbiology, bacterial gene surveys, metagenomics, or metatranscriptomics.

- Familiarity with R for statistical analyses and data visualization.
- Ability to work independently to conduct an independent research project, as well as willingness to mentor graduate and undergraduate students.

Please email Sara Jackrel at [sjackrel@ucsd.edu](mailto:sjackrel@ucsd.edu) with any questions and to apply. Email applications should include:

- A cover letter that summarizes past research and how your interests fit with the lab.
- CV with complete publication list, including a list of manuscripts in review.
- Contact information for 3 references.

“Jackrel, Sara” <[sjackrel@UCSD.EDU](mailto:sjackrel@UCSD.EDU)>

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## UCambridge MothPolymorphism

A post-doctoral research associate position is available in the Department of Zoology from 1 Jan 2021 or as soon as possible thereafter, to work with Professor Chris Jiggins on the genetic basis for life history and morphological traits in the tiger moth *Arctia plantaginis*.

The moth has a male colour polymorphism which is also associated with other life history and behavioural traits including chemical signals, mating behaviour of males and mate preferences. This complex polymorphism is a puzzle as our preliminary analysis shows no evidence for a supergene or large associated genetic locus. The PDRA will work on the genetic basis of traits associated with colour differences, to identify genomic regions showing association with phenotype.

This work will be carried out as part of a BBSRC-funded project, in collaboration with Prof Johanna Mappes at the University of Helsinki. The Mappes group has developed this species into an exciting system with extensive ecological background and potential for rearing large numbers of individuals. Large collections of wild samples are also available.

The project will include quantitative genetic analysis of life history and behavioural traits, QTL analysis of chemical data on pheromones and defensive chemicals and morphology including larval and adult colour pat-

terns, and genetic analysis of wild samples; analysing and writing up the results for publication.

Please see here for more info <https://www.jobs.cam.ac.uk/job/31490/> Informal enquiries can be directed to Chris Jiggins [cj107@cam.ac.uk](mailto:cj107@cam.ac.uk).

Fixed-term: The funds for this post are available until 31 December 2024.

We welcome applications from individuals who wish to be considered for part-time working or other flexible working arrangements.

We particularly welcome applications from women and/or candidates from a BME background for this vacancy as they are currently under-represented at this level in our department/University.

Click the 'Apply' button below to register an account with our recruitment system (if you have not already) and apply online.

If you have any queries regarding the application process please contact Anastasia Nezhentseva Email:[an286@cam.ac.uk](mailto:an286@cam.ac.uk).

Interviews maybe done remotely following current guidelines.

Please quote reference PF28227 on your application and in any correspondence about this vacancy.

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.

Chris Jiggins <[cj107@cam.ac.uk](mailto:cj107@cam.ac.uk)>

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## UFlorida SharkEvoDevo

POSTDOC - Shark EvoDevo

Evolution of shark skin teeth from genotype to phenotype to prototype

NSF-Funded postdoctoral position is available in the Laboratory of Gareth Fraser ([www.fraser-lab.net](http://www.fraser-lab.net)) at the Department of Biology, University of Florida, Gainesville. The central theme of our lab is Vertebrate Evolutionary Developmental Biology. This NSF-funded project, in collaboration with Professor George Lauder at Harvard University and Dr. Elizabeth Sibert at Yale University, seeks to integrate deep time,

development, and design for the study of shark skin denticles.

We are looking for a motivated and creative scientist to develop the shark skin system as an EvoDevo model that links palaeontology, developmental biology, and design for new engineering solutions. The primary focus of this position will include generating developmental RNAseq data, tracking the development and regeneration of shark skin denticles, and developing new methods to understand denticle shape-shifting in a range of shark models. This project will offer a range of training opportunities including, analyzing RNAseq data, learning hands-on shark embryology techniques, developing a 'design a shark' virtual reality environment, and shark husbandry. In addition, we encourage and nurture the candidate's own creativity and research tangents; so, there is huge potential here to develop a project that suits the selected candidate, related to the focal themes of the project. The salary is competitive and commensurate with qualifications and experience and includes a full benefits package. The start date is somewhat flexible, and the applicant selected for this position could begin as early as February 2022.

#### Qualifications

Candidates should have an interest in EvoDevo, palaeo-history of vertebrates and vertebrate diversity. Knowledge of embryology, developmental biology techniques, RNAseq analyses (bioinformatics) or stem/regenerative biology is desirable.

#### Application Instructions

For full consideration, applications should be submitted via email to Dr. Gareth Fraser (g.fraser@ufl.edu) and must include: (1) a letter of application summarizing the applicant's qualifications and interests, (2) a complete curriculum vitae, (3) a statement on research goals, and (4) a list of at least three references. After initial review, applicants who are chosen to receive further consideration will be asked to request confidential letters of recommendation from the references.

If you would like further information about the position, please contact Dr. Gareth Fraser. Email: g.fraser@ufl.edu.

Application deadline is October 29, 2021.

All candidates for employment are subject to a pre-employment screening which includes a review of criminal records, reference checks, and verification of education.

The selected candidate will be required to provide an official transcript to the hiring department upon hire. A transcript will not be considered "official" if a desig-

nation of "Issued to Student" is visible. Degrees earned from an educational institution outside of the United States require evaluation by a professional credentialing service provider approved by the National Association of Credential Evaluation Services (NACES), which can be found at <http://www.naces.org/>. The University of Florida is an equal opportunity institution dedicated to building a broadly diverse and inclusive faculty and staff. Searches are conducted in accordance with Florida's Sunshine Law. If an accommodation due to disability is needed in order to apply for this position, please call (352) 392-2477 or the Florida Relay System at (800) 955-8771 (TDD).

The Department particularly welcomes applicants who can contribute to a diverse and inclusive environment through their scholarship, teaching, mentoring, and professional service. The university and greater Gainesville communities enjoy a diversity of cultural events, restaurants, year-round outdoor recreational activities, and social opportunities.

Gareth J. Fraser, Ph.D

Department of Biology University of Florida Carr Hall, Room 512 882 Newell Drive Gainesville, FL, 32611 (352) 273-4758 Skype: garethjfraser [www.fraser-lab.net](http://www.fraser-lab.net) <https://biology.ufl.edu/gareth-fraser/> "Fraser, Gareth John" <g.fraser@ufl.edu>

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## UFlorida Tropical Evolution

The John J. and Katherine C. Ewel Postdoctoral Fellowship Program in Ecology and Environmental Science in the Tropics and Subtropics will enable a recent doctoral recipient to study tropical or subtropical ecology and environmental sciences at the University of Florida (UF). The Fellow will conduct research for two years with a UF faculty member in any department, in any subdiscipline of ecology or environmental science.

The fellowship will provide an annual stipend of \$54,000 plus an annual allowance of \$15,000 for health insurance, research support, professional development, and travel. The fellowship is awarded for a period of two years.

Citizens of any country may apply. The application deadline is January 9th, 2022.

Learn more and apply: <http://postdoc.aa.ufl.edu/-programs/ewel-postdoctoral-fellowship/> Lily R. Lewis, Ph.D. Director, Office of Postdoctoral Affairs & Academic Communications Office of the Provost & Senior

Vice President UNIVERSITY of FLORIDA 235 Tigert Hall | PO Box 113175 | Gainesville, FL 32611-3175 P: (352) 273-4357 | LilyRLewis@ufl.edu postdoc.aa.ufl.edu | @UFPostdocs < <https://twitter.com/UFPostdocs> >

“Lewis,Lily R” <lilyrlewis@ufl.edu>

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## UKentucky DrosophilaCryopreservation

**Summary:** The Teets Lab at University of Kentucky is recruiting a postdoc to work on an NIH-funded project on *Drosophila* cryopreservation. One of the primary goals is to be able to cryopreserve diverse strains for long-term selection experiments and evolutionary studies. Experience with *Drosophila* genetics 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 *Drosophila* Cryopreservation  
Location Department of Entomology and Department of Horticulture University of Kentucky, Lexington, KY

Contact Nicholas Teets Associate Professor Email: n.teets@uky.edu Phone: (859)-257-7459 Lab website: [www.teetslab.com](http://www.teetslab.com) Bruce Downie Professor Email: adownie@uky.edu Phone: (859)-257-5237 Lab website: [www.seedsleuths.com](http://www.seedsleuths.com) Description: The Teets and Downie labs at University of Kentucky are seeking a postdoctoral associate to lead an NIH-funded project on *Drosophila* cryopreservation. The successful applicant will conduct research on novel strategies to load cryoprotective molecules into *Drosophila* embryos so that they can be stored at low temperature for prolonged periods. The postdoc will be part of a collaborative team at University of Kentucky and University of Louisville with expertise in insect cold tolerance, protein biochemistry, anhydrobiosis, and bioengineering. Specific duties will include designing and conducting experiments to optimize survival and normal development of previously frozen embryos, presenting results at conferences and in scientific articles, and mentoring undergraduate students. The successful candidate is expected to embrace the collaborative nature of this project and travel between both universities as needed (~75 minute drive) to perform duties.

**Qualifications:** Applicants should have a PhD in biology, entomology, molecular biology, or a related field. Experience working with *Drosophila* is 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 with 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. The University of Louisville is a premier metropolitan research university with state-of-the-art micro/nanotechnology and imaging centers and the Theranostic Ultrasound Laboratory.

**Start Date and Compensation:** The position is available to start immediately. 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 submit 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 directly to Dr. Nick Teets by email (n.teets@uky.edu). Review of applications will begin immediately, and for consideration please apply by November 1, 2021.

“Teets, Nicholas M.” <n.teets@uky.edu>

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## ULeiden BalancedLethalSystemGenomics

The Institute of Biology Leiden at Leiden University and Naturalis Biodiversity Center are looking for a postdoctoral researcher - in the European Research Council-funded project BALANCED LETHALS - to determine the genomic architecture at the basis of an evolutionary enigma: the balanced lethal system in the salamander genus *Triturus* (the crested and marbled newts).

Balanced lethal systems represent an evolutionary

enigma because they are incredibly maladaptive. Two distinct forms of a chromosome are required for survival, meaning that only heterozygotes are viable, while homozygotes - half of the total reproductive output - perish. Triturus newts are the most illustrious example. Two non-recombining forms of chromosome 1, 1A and 1B, are involved. The unfortunate homozygous offspring that possess either chromosome 1A or 1B twice experience developmental arrest and die halfway through normal embryogenesis. Half of the eggs a female Triturus newt lays never hatch!

The candidate will combine data obtained with Oxford nanopore sequencing, Hi-C chromosome conformation capture and high-resolution linkage mapping to assemble the ~32Gb Triturus genome into chromosomes and determine the genomic architecture underlying the balanced lethal system. All required samples are available and lab work is outsourced.

#### Selection criteria

- PhD degree in biology with proven experience in bioinformatics and whole genome assembly and annotation;
- A good command of the English language and proven writing abilities;
- Highly motivated and capable of working both independently and as part of a team.

#### Our organisation

The Faculty of Science is a world-class faculty where staff and students work together in a dynamic international environment. It is a faculty where personal and academic development are top priorities. Our people are committed to expand fundamental knowledge by curiosity and to look beyond the borders of their own discipline; their aim is to benefit science, and to make a contribution to addressing the major societal challenges of the future.

The research carried out at the Faculty of Science is very diverse, ranging from mathematics, information science, astronomy, physics, chemistry and bio-pharmaceutical sciences to biology and environmental sciences. The research activities are organised in eight institutes. These institutes offer eight bachelor's and twelve master's programmes. The faculty has grown strongly in recent years and now has more than 2300 staff and almost 5000 students. We are located at the heart of Leiden's Bio Science Park, one of Europe's biggest science parks, where university and business life come together. For more information, see the website of the Faculty of Science.

The research within the Institute of Biology Leiden (IBL) aims to work on the science base of biodiversity and health, which is reflected in our leading principle

Harnessing Biodiversity for Health. We perform innovative curiosity-driven research to answer fundamental questions, and solutions-driven research to help solving major societal challenges. The latter include protecting nature's biodiversity, creating sustainable biotechnology and agriculture and increasing good health. Our research focuses on four Research Themes: Bioactive Molecules, Host-Microbe Interactions, Development & Disease and Evolution & Biodiversity. Located in a thriving scientific environment with our Faculty of Sciences, Naturalis Biodiversity Centre, the Leiden University Medical Centre and the Leiden Bioscience Park, IBL offers an exciting, internationally oriented and inclusive place to work and study.

Naturalis Biodiversity Center in Leiden is the Dutch national research institute for biodiversity and systematics. With our collection of 42 million specimens, one of the world's largest natural history collections, and our state-of-the-art research facilities we offer the (inter)national research infrastructure for species, identification and monitoring. We closely collaborate with many Dutch universities, research institutes, industry and government. We host over 120 researchers including 13 academia embedded professors and 40 PhD students. We present the history of our planet, and the diversity of life on Earth, through permanent and temporary museum exhibitions, educational programmes and online presence, with more than 400,000 visitors per year. All in all, a unique combination of science and culture in the Netherlands and elsewhere in the world!

#### Terms and conditions

We offer a full-time, fixed 2 year post. Salary ranges from euro 2.790,- to euro 4.402,- gross per month (pay scale 10 in accordance with the Collective Labour Agreement for Dutch Universities).

Leiden University offers an attractive benefits package with additional holiday (8%) and end-of-year bonuses (8.3 %), training and career development and sabbatical leave. Our individual choices model gives you



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## ULeiden MicrobialEvolution

3-year postdoctoral researcher in Leiden: Microbial Evolution

We are seeking to employ a postdoctoral researcher at the Institute of Biology (IBL) at Leiden University, The Netherlands. The position will be held in the lab of Daniel Rozen in Leiden and is part of a collaborative project funded by the Human Frontiers Science Program (HFSP) together with Prof Karen Alim (UT Munich) and Prof Marcus Roper (UCLA) to study nuclear cooperation and conflict in the syncytial slime mold *Physarum polycephalum*.

The scientific aim of the interdisciplinary project is to determine how cooperative and competitive dynamics between nuclei within the syncytia of *Physarum polycephalum* interact to produce emergent organism-scale behaviors.

The candidate will generate chimeric syncytia, quantify the fitness and spatial distribution of distinct nuclear populations within plasmodia growing on different selective gradients, and examine feedbacks between nuclear dynamics and plasmodial behavior. Experimental work in Leiden will be closely integrated with our project partners who will image (Karen Alim) and model (Marcus Roper) nuclear activity and translocation across plasmodial tubes.

Selection Criteria

\* A PhD in evolutionary biology, microbiology or related field. \* Experience with microbial evolution/ecology, statistics, fluorescence microscopy, and bioinformatics is an advantage. \* Ability to work independently and as part of a multidisciplinary team. \* Excellent written and oral proficiency in English.

The Institute for Biology The research within the Institute of Biology Leiden (IBL) aims to work on the science base of biodiversity and health, which is reflected in our leading principle Harnessing Biodiversity for Health. We perform innovative curiosity-driven research to answer fundamental questions, and solutions-driven research to help in solving major societal challenges. The latter include protecting nature's biodiversity, creating sustainable biotechnology and agriculture and improving health. Our research focuses on four major Themes: Bioactive Molecules, Host-Microbe Interactions, Development &

Disease and Evolution & Biodiversity. Located in a thriving scientific environment with our Faculty of Sciences, Naturalis Biodiversity Centre, the Leiden University Medical Centre and the Leiden Bioscience Park, IBL offers an exciting, internationally oriented and inclusive place to work and study.

Terms and conditions We offer a full-time, 3 year post beginning Nov 1st, 2021. Salary range from euro 2.790 to euro 4.402 gross per month (pay scale 10 in accordance with the Collective Labour Agreement for Dutch Universities). Leiden University offers an attractive benefits package with additional holiday (8%) and end-of-year bonuses (8.3 %), training and career development and sabbatical leave. Our individual choices model gives you some freedom to assemble your own set of terms and conditions. Candidates from outside the Netherlands may be eligible for a substantial tax break. Leiden University is strongly committed to diversity within its community and especially welcomes applications from members of underrepresented groups.

Applications To formally apply for this vacancy, please send an email to [jobs@biology.leidenuniv.nl](mailto:jobs@biology.leidenuniv.nl). Please ensure that you upload the following additional documents as a single pdf file:

\* A 1 pg motivation letter \* A full CV \* Names and contact details of two persons who have agreed to be contacted for references

Information Informal enquiries can be made to Daniel Rozen: [d.e.rozen@biology.leidenuniv.nl](mailto:d.e.rozen@biology.leidenuniv.nl)

Daniel Rozen Institute of Biology, Leiden Sylviusweg 72, 2333 BE Leiden University, The Netherlands +31 (0)71 527 7990

“Rozen, D.E.” <[d.e.rozen@biology.leidenuniv.nl](mailto:d.e.rozen@biology.leidenuniv.nl)>

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## ULodz VertebrateEvolution

Postdoc: EXILE - University of  $\text{\AA}$ ód $\text{\AA}$ o - Department of Ecology and Vertebrate Zoology

REMINDER - DEADLINE FOR SUBMISSION OF APPLICATIONS: 20 October 2021

An exciting postdoctoral position funded by the Polish National Science Centre (NCN, grant EXILE) is available at the Department of Ecology and Vertebrate Zoology of the University of  $\text{\AA}$ ód $\text{\AA}$ o (Poland) under the supervision of Philippe Kok (STELLAR Research Group, see <http://www.philippekok.com/stellar->



[research-group/](#)). The position is offered for one year, renewable for two further periods of one year (thus max 3 years) and is available from January 2022.

Brief scientific summary of the project: While potential responses of vertebrate communities to environmental constraints have been widely tested in post-Pleistocene landscapes, extrinsic and intrinsic drivers of vertebrate population density in ancient insular terrestrial landscapes (fragmented paleosurfaces) are essentially unknown. The overarching objective of this project (acronym EXILE for EXObIoLogY on Earth) is to explore, document and understand how environmentally hostile naturally fragmented paleosurfaces may have driven/changed peculiar behavioural, bio-physical and eco-physiological adaptations, and ultimately the evolutionary trajectories of vertebrates. EXILE focusses on the “Lost World” moonlike tabletop mountains of northern South America (tepui). We hypothesize that ancient endemic lineages of vertebrates thriving on these paleosurfaces, such as the toad genus *Oreophrynella* and the lizard genus *Riolama*, have developed unique behavioural, bio-physical and eco-physiological traits/strategies to cope with the tepuis’ highly contrasted environmental conditions. EXILE stems from our previous work in this unique system and was inspired by unconventional findings, testimony to the tremendous research discoveries yet to be made in this unusual ecosystem. It is well known that body temperature and water balance are jointly influenced by heat and water exchange within the organism and between the organism and its environment. This exchange is modulated by (i) the biophysical and physiological properties of the organism and by (ii) behavioural strategies. Biophysical properties include morphology, surface properties, and metabolic modes. For instance, skin colour, thickness, and ultrastructure in reptiles and amphibians determine heating capacity and resistance to water loss. EXILE will specifically focus on two main complementary research axes: (1) thermal biology, and (2) bio-physical adaptations to dehydration. We will use selected Pantepui amphibians and reptiles on a single tepui summit at ca. 2,800 m elevation. In order to situate these results in the appropriate ecological and evolutionary context, we will also investigate non-insular upland (ca. 1,000 m elevation) closely-related taxa in the surrounding Pantepui tropical rainforest, as well as the closest relatives of the tepui taxa living in a Neotropical post-Pleistocene landscape at similar elevation (ca. 2,800 m elevation in the sub-paramo in the Andes). Field expeditions coupled with the use of advanced techniques such as highly sensitive thermal imagery, including the use of drones to record thermal images of the landscapes from the air, will be carried

out to complete our project. We will also run a variety of cutting-edge behavioural tests, either in the native environment of the animals or in our field laboratory, and use modern imagery techniques (such as high-resolution X-ray microcomputed tomography and electronic microscopy).

Summary for the public is available here: <https://ncn.gov.pl/sites/default/files/listy-rankingowe/2020-09-30apsv2/streszczenia/505651-en.pdf> Requirements: We are looking for an out of the box thinker with strong motivation and positive energy, as well as an eye for the details and excellent organisational skills. The successful candidate will have a PhD in biological or closely related science and experience in field work, preferably under difficult conditions and during extended periods. The EXILE project involves heavy field work in different locations (such as tepui top, intervening forest at tepui foot, and one locality around 2,800m elevation in the Andes), for usually 6-8 weeks, with at least 6 distinct field campaigns over 2-3 years.

The ideal candidate will also have some of the following: o Excellent publication record (according to experience); o Excellent skills in statistics; o Experience in behavioural tests; o Experience in thermal imagery (a drone pilot license is a plus); o Experience in  $\hat{I}_{\frac{1}{4}}CT/SR-\hat{I}_{\frac{1}{4}}CT/SEM/TEM/soft-tissue$  staining techniques; o Experience in population estimates;

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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>

## UMontpellier EvolQuantGenetics

Postdoctoral Position in Evolutionary Quantitative Genetics Université de Montpellier, France

A postdoctoral position is available to work on an ANR-funded project in the laboratory of Professor Carol Lee and collaborators Drs. Catherine Lorin-Nebel and Delphine Bonnet, at the MARBEC Laboratory in the Université de Montpellier, France. This project is integrated with Carol Lee’s NSF-funded project at the University of Wisconsin, Madison.

This project focuses on Rapid Evolutionary Responses to Global Change using the copepod *Eurytemora affinis*

species complex as a model system. With changes in global climate, coastal high latitude waters are experiencing rapid declines in salinity, due to increases in ice melt and precipitation. In addition, populations are experiencing salinity decline during saline to freshwater invasions. We have found evolutionary shifts in ion transport function, genome-wide gene expression, and population genomic signatures of selection associated with these changes in salinity (see pubs in the links below).

This postdoc project will entail conducting a genetic association study to link candidate alleles with fitness-related traits. Across multiple studies in the Lee Lab, the largest functional category of genes under selection during the salinity shifts are ion transporters. The goal of this study is to identify the impacts of specific ion transporter paralog alleles on salinity tolerance and performance. The experimental procedure involves crossing copepod lines adapted to different salinities to the F2 generation to dissociate genetic loci, followed by data collection of fitness-related traits and genotypes of ion transport paralogs. We will later use the results to input into models of evolutionary rescue in the Baltic Sea during its freshening due to climate change. The postdoc will work alongside a technician and Ph.D. student, who are already trained on this project.

The ideal candidate should hold a Ph.D. and have publications in peer-reviewed journals. Relevant areas of expertise include quantitative genetics, laboratory-controlled experiments (e.g. association studies, experimental evolution, or common-garden experiments), culturing (e.g. copepods and algae), and statistics.

Review of applications will begin immediately and will continue until the position is filled. The appointment could persist for up to two years. Interested candidates should email their application to Prof. Carol Lee (carollee@wisc.edu), including: (1) a CV, (2) a list of references (recommenders), and (3) samples of first authored publications. Enquiries regarding this position are most welcome.

The MARBEC laboratory at Université de Montpellier offers a large and intellectually vibrant community of evolutionary biologists and physiologists, providing ample opportunities for intellectual interaction. Montpellier is a beautiful and culturally-rich city near the Mediterranean coast.

Sample publications:

[https://carollee.labs.wisc.edu/pdfs/-Stern&Lee\\_NatureE&E\\_2020suppfiles.pdf](https://carollee.labs.wisc.edu/pdfs/-Stern&Lee_NatureE&E_2020suppfiles.pdf) [https://carollee.labs.wisc.edu/pdfs/PosaviEtal\\_2020.pdf](https://carollee.labs.wisc.edu/pdfs/PosaviEtal_2020.pdf)  
[https://carollee.labs.wisc.edu/pdfs/Eyun\\_etal2017.pdf](https://carollee.labs.wisc.edu/pdfs/Eyun_etal2017.pdf)

[https://carollee.labs.wisc.edu/pdfs/-Posavi\\_etal2014.pdf](https://carollee.labs.wisc.edu/pdfs/-Posavi_etal2014.pdf) <https://carollee.labs.wisc.edu/pdfs/LeeGelembiuk2008.pdf> Carol Eunmi LEE, Ph.D. Professor

Department of Integrative Biology 430 Lincoln Drive, Birge Hall University of Wisconsin Madison, WI 53706 carollee@wisc.edu

<http://carollee.labs.wisc.edu> Carol Eunmi LEE <carollee@wisc.edu>

## UOregon PopulationGenomics

Postdoctoral positions in Population Genomics at University of Oregon

Seeking qualified applicants for multiple funded post-doctoral positions to work in the joint lab group of Drs. Andrew Kern and Peter Ralph in the Institute of Ecology and Evolution at the University of Oregon. We are looking for colleagues who will work with us on a number of ongoing directions within the group including: 1) the development and application of deep learning methods for population genomic inference, 2) spatial population genetics and its intersection with ecology, and 3) the development and implementation of population genetics methods that capitalize on recent, breakthrough representations of whole genome genealogies (i.e. tree sequences).

The ideal candidate would hold a Ph.D. and have a record of research achievement in population genetics, evolutionary biology, phylogenetics/phylogeography, computational biology, computer science, statistics, or a related field. Indeed your exact field of research to date is less important than your demonstrated record of publication and engagement. The ideal candidates would have: experience doing modeling and/or data analysis in one of the fields above, experience programming in python or R, and have some experience with cluster computing environments (however, not all are required).

More information about the Kern-Ralph co-lab can be found here: <http://kr-colab.github.io>. We work to maintain an inclusive, supportive and equitable group environment, and people of backgrounds or genders historically underrepresented in the field are especially encouraged to apply. The lab is located on the gorgeous University of Oregon campus. Eugene is a wonderful small city with an excellent quality of life that affords

abundant outdoor opportunities in the nearby Cascade mountains and Oregon coast.

Review of applications will begin immediately and continue until the position is filled. Interested candidates should submit an electronic version of their CV along with a cover letter describing their qualifications and relevant experience to Andrew Kern (adkern@uoregon.edu) and Peter Ralph (plr@uoregon.edu)

Andrew Kern, Ph.D. Evergreen Associate Professor of Biology Institute of Ecology and Evolutionary Biology University of Oregon

Andrew Kern <adkern@uoregon.edu>

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### UOxford 3 Paleovirology

Three new postdoctoral positions in paleovirology, in the lab of Prof. Katzourakis at the Department of Zoology, University of Oxford. This is an exciting opportunity to work on an ERC funded project on the evolutionary dynamics of viral cross-species transmissions, and the consequences of virus-host gene exchange. We seek an accomplished post-doctoral scientist with a track record of excellence, laboratory virology experience, working with viruses and cell culture to investigate virus/host interactions. We also seek an accomplished post-doctoral scientist with a track record of excellence, experience of genomic analysis, programming and evolutionary analysis experience, with a background or interest on working with viruses. And a post-doctoral scientist with a background in sequence analysis, phylogenetics, and some experience with laboratory techniques. Deadline is the 13th of September, please contact paleovirology@gmail.com for more information.

Links to full adverts:

[https://my.corehr.com/pls/uoxrecruit/-erq\\_jobspec\\_version\\_4.display\\_form?p\\_company=&p\\_internal\\_external=E&p\\_display\\_in\\_irish=-N&p\\_process\\_type=&p\\_applicant\\_no=-&p\\_form\\_profile\\_detail=&p\\_display\\_apply\\_ind=-Y&p\\_refresh\\_search=Y&p\\_recruitment\\_id2664](https://my.corehr.com/pls/uoxrecruit/-erq_jobspec_version_4.display_form?p_company=&p_internal_external=E&p_display_in_irish=-N&p_process_type=&p_applicant_no=-&p_form_profile_detail=&p_display_apply_ind=-Y&p_refresh_search=Y&p_recruitment_id2664)  
[https://my.corehr.com/pls/uoxrecruit/-erq\\_jobspec\\_version\\_4.display\\_form?p\\_company=&p\\_internal\\_external=E&p\\_display\\_in\\_irish=-N&p\\_process\\_type=&p\\_applicant\\_no=-&p\\_form\\_profile\\_detail=&p\\_display\\_apply\\_ind=-Y&p\\_refresh\\_search=Y&p\\_recruitment\\_id2666](https://my.corehr.com/pls/uoxrecruit/-erq_jobspec_version_4.display_form?p_company=&p_internal_external=E&p_display_in_irish=-N&p_process_type=&p_applicant_no=-&p_form_profile_detail=&p_display_apply_ind=-Y&p_refresh_search=Y&p_recruitment_id2666)  
[https://my.corehr.com/pls/uoxrecruit/-erq\\_jobspec\\_version\\_4.display\\_form?p\\_company=&p\\_internal\\_external=E&p\\_display\\_in\\_irish=-N&p\\_process\\_type=&p\\_applicant\\_no=-&p\\_form\\_profile\\_detail=&p\\_display\\_apply\\_ind=-Y&p\\_refresh\\_search=Y&p\\_recruitment\\_id2665](https://my.corehr.com/pls/uoxrecruit/-erq_jobspec_version_4.display_form?p_company=&p_internal_external=E&p_display_in_irish=-N&p_process_type=&p_applicant_no=-&p_form_profile_detail=&p_display_apply_ind=-Y&p_refresh_search=Y&p_recruitment_id2665)

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### UPennsylvania HumanGenomics

GLOBAL GENOMICS POSTDOCTORAL HEALTH EQUITY FELLOWSHIPS The Penn Center for Global Genomics & Health Equity in the Perelman School of Medicine at the University of Pennsylvania (<https://globalgenomics.med.upenn.edu/index.html>) is seeking candidates for postdoctoral fellowships. With funding from Genentech, a member of the Roche Group, this fellowship aims to help train basic and translational research scientist from groups which are traditionally under-represented in biomedical research as outlined by the National Institutes of health < <https://extramural-diversity.nih.gov/diversity-matters> >. The goal of this fellowship is to facilitate training in biomedical research that aims to elucidate genomic and environmental risk factors contributing to health disparities and development of diagnostics and therapeutics to translate this research into the clinic and help reduce the burden of health disparities across the globe.

The University of Pennsylvania does not discriminate based on race, religion, gender, gender expression and/or identity, age, national origin, disability, marital status, sexual orientation, military status, or any other protected status.

Application Due Date: Applications will be reviewed on rolling basis until positions are filled.

#### HOW TO APPLY

Before applying, applicants must first identify a Penn Perelman School of Medicine based faculty mentor whose research aligns well with the candidate's research interest. With the consent of the faculty member, prepare a 1-page personal statement and a 2-page research proposal to be submitted with the application package.

#### Fellowship Qualifications / Eligibility

\* Open to all nationalities (No US Citizenship or permanent residency required) \* Candidate must complete their requirement for Ph.D. and/or MD degree by the fellowship start date. \* Candidate must have completed their PhD and/or MD within the last five

years. \* Record of research productivity and appropriate skills \* Proposed research must focus on genetics/genomics research of diseases that show health disparities and/or genomic studies of groups traditionally under-represented in human genetic studies (e.g. see Sirugo, G., Williams, S.M., Tishkoff, S.A., The Missing Diversity in Human Genetic Studies, Cell 2019 < <https://pubmed.ncbi.nlm.nih.gov/30901543-the-missing-diversity-in-human-genetic-studies/> >). \* Candidate must be from a group under-represented in the biomedical sciences. \* Research fit with selected training faculty.

Please contact Sarah Tishkoff (tishkoff@penmedicine.upenn.edu) or Dorothy Hammond (Dorothy.Hammond@Penmedicine.upenn.edu) if you have questions.

Sarah Tishkoff, Ph.D. David and Lyn Silfen University Professor Departments of Genetics and Biology University of Pennsylvania Tel: 215-746-2670 tishkoff@penmedicine.upenn.edu <http://www.med.upenn.edu/tishkoff/> Director, Center for Global Genomics & Health Equity <https://globalgenomics.med.upenn.edu/index.html> “Keep strong and carry on!”

“Tishkoff, Sarah” <tishkoff@penmedicine.upenn.edu>

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## UPennsylvania HumanPopulationGenetics

The Mathieson Lab at the University of Pennsylvania (<https://www.med.upenn.edu/mathieson-lab/>) is searching for two postdoctoral researchers to work on projects in the areas of population genetics, human evolution and disease genetics. Funding is available for each position for up to five years. Some ongoing projects in the lab are below, but we are very open to other research projects in our broad areas of interest:

- 1) Using ancient DNA to detect selection on complex traits. Developing methods to detect selection using ancient DNA. Understanding the role of polygenic adaptation in human evolution. Integrating genetic, archaeological and anthropological data.
- 2) Understanding the use and transferability of polygenic risk scores. Why do PRS not transfer across populations? Can we improve on the design of PRS? How do population structure, selection and demographic history affect PRS?

- 3) Developing new population genetic approaches for phenome-wide association studies in electronic health record datasets./

More information about the lab can be found at our website: <https://www.med.upenn.edu/mathieson-lab/>. Requirements: a PhD in computational biology, computer science, statistics, population/statistical genetics, or another relevant field. Programming experience is required, and some experience with ancient DNA, genome-wide association studies, statistical population genetics or similar areas would be helpful. To apply, please email your CV with contact details of 2-3 references, and a brief description of your research interests to Iain Mathieson (mathi@penmedicine.upenn.edu). Please also contact Iain with informal enquiries. Start date is flexible.

mathi@penmedicine.upenn.edu

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## UppsalaU MolecularEvolution

The Department of Ecology and Genetics at Uppsala University is seeking a researcher (PostDoc) in Molecular Ecology.

Project description/ Duties: We are hiring a researcher for the project “Species-genetic diversity correlations in a meta community perspective”. The goal of the project is to understand how species and genetic diversity are correlated in general, with an emphasis on urban environments. This relationship between species and genetic diversity may be affected by environmental variables such as habitat size, urban areas, connectivity etc. One of the aims of this project is to quantify the effect of these environmental variables. The project is focused on urban ponds in the city of Stockholm, Sweden, which were surveyed with regard to biodiversity (invertebrates and amphibians) and environmental variables. Data collection is already completed and will be analyzed using advanced multivariate statistics. You will use genomic data already obtained through ddRADseq (with DNA methylation-sensitive enzymes), as well as community ecology data (already collected). The two datasets will be used to quantify genetic variation, genetic structure, and species diversity as well as the association between these.

Requirements: A doctoral degree or a degree equivalent to a doctoral degree, in the area of evolutionary ecology, ecological genetics molecular ecology or a similar field of knowledge. Extensive experience with molecular genetic

analyses and advanced knowledge on multivariate statistics is a requirement for the position. The applicant needs to be proficient in R and/or Python and have experience with next-generation sequencing data analyses and multivariate statistics, including: STRUCTURE and ADMIXTURE analyses, PCA and analyses such as redundancy analysis, mixed-effects modeling, and gene-environment interactions.

Applications should be submitted no later than September 30, 2021. More information about the position and the link to the recruitment portal of Uppsala University can be found here:

<https://www.uu.se/en/about-uu/join-us/details/-?positionId=3D422781> Frank Johansson Department of Ecology and Genetics, Animal Ecology Program frank.johansson@ebc.uu.se

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

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## USouthernCalifornia PlantGenomics

Dear Evoldir,

We are looking to recruit a postdoc for our project looking at the role of plasticity in adaptive divergence. We are using a new model system to test previous theory surrounding the importance of plasticity. Please find below some key info and check out: <https://jobs.soton.ac.uk/-Vacancy.aspx?ref=1476821BJ> Note it's currently only for 3.5 months as it is the tail end of an existing grant, but we hope to extend this to 5.5. We seek to hire soon, so the closing date is in 10 days. If you are in the UK it can be done remotely and will be largely bioinformatic (transcriptomics, genomics and methylomics).

Best wishes, Mark (m.chapman@soton.ac.uk)

We seek a Postdoc/Research Fellow to work on the project "The contribution of plasticity to adaptive divergence: domestication as a model". The NERC/BBSRC co-funded project provides support until 31/12/2021 (with the possibility of extension) from 20th September 2021 (or as soon as possible there-

after) to work with Dr Mark Chapman in the Ecology and Evolution group at the University of Southampton (<https://www.southampton.ac.uk/biosci/about/staff/mc1c12.page>), co-supervised by Dr Tom Ezard in Ocean and Earth Science (<https://www.southampton.ac.uk/oes/about/staff/te1e12.page>).

The goal of this project is to study the evolution of plasticity, comparing crops to their wild relatives, as a model for understanding the genetic basis and role of plasticity in adaptive divergence and the early emergence of new taxa. The project has been running for 2 years and we have generated genomic, transcriptomic and phenotypic data from multiple generations of plants. This will allow the candidate to compare both acclimation and adaptation responses to stress.

Dr Mark A. Chapman M.Chapman@soton.ac.uk +44 (0)2380 594396

Biological Sciences University of Southampton Life Sciences Building 85 Highfield Campus Southampton SO17 1BJ

Mark Chapman <markchapman4774@gmail.com>

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## USouthernCalifornia HumanMedicalPopulationGenetics

A postdoctoral research position is available in the lab of Dr. Charleston Chiang in the Center for Genetic Epidemiology, Department of Population and Public Health Sciences at the Keck School of Medicine, University of Southern California (USC). The Chiang lab utilizes cutting-edge analytic tools to address questions at the intersection of human medical and population genetics. In particular, we have a strong interest in using genomic data to understand the evolution and architecture of complex traits and the history of diverse human populations. These insights will be critical for future medical genetics studies and in practicing personalized medicine.

The successful candidate will have substantial input in the nature and the direction of the ongoing research projects within the lab and will be encouraged to explore projects that broadly fit within the lab's research interest and funded R35 and R01 grants. These goals include learning about demographic history or natural selection from genetic variation data, or understanding genetic architecture and evolutionary history of complex traits in diverse populations. Opportunities are avail-

able for both method development as well as analysis of large-scale genotyping and next-generation sequencing data in humans from diverse populations. Additional information about our lab and research can be found at: <http://chianglab.usc.edu>. Funding is available for at least 2 years. Position is renewable annually after 2 years, contingent upon satisfactory progress. Due to the pandemic, some level of working from home is possible and negotiable. Salary will be competitive, starting at step 5 of the NIH postdoctoral scale (greater than \$62K per year), commensurate with experience and expertise. The University of Southern California offers a competitive benefits package including medical, dental, vision, life insurance, accidental death and dismemberment insurance, and short and long term disability insurance.

Candidates should have a Ph.D. in genetics, computer science, bioinformatics, computational biology, or a related field. Proficiency in one or more programming languages (e.g. python, perl, C++, R, etc.) and in Unix-based computing environment is essential. Experience in conducting human genetics or population genetics research and analyzing large genetic datasets is a plus, but not required. Applications will be reviewed as they are received, but by December 1st, 2021, at the latest. Position will remain open until filled. The position is expected to start in Spring or Summer 2022, though specific dates are negotiable.

Interested candidates should submit a CV, short (1-2 pages) cover letter describing your research interests and fit within the lab, and contact information for 2-3 references. Reference letters are accepted, but not required at this stage. Informal inquiries are welcomed and can be addressed to Dr. Charleston Chiang at [charleston.chiang@med.usc.edu](mailto:charleston.chiang@med.usc.edu).

Charleston W. K. Chiang, Ph.D. Assistant Professor of Population & Public Health Sciences Center for Genetic Epidemiology Keck School of Medicine Assistant Professor of Quantitative & Computational Biology University of Southern California <http://chianglab.usc.edu> Twitter: @CharlestonCWKC

“Chiang, Charleston” <[Charleston.Chiang@med.usc.edu](mailto:Charleston.Chiang@med.usc.edu)>

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## USouthernCalifornia HumanPopulationGenetics

Postdoctoral Research Associate in the Department of Biological Sciences, University of Southern California

A postdoctoral position is available in the Campbell laboratory in the Department of Biological Sciences at the University of Southern California. The Campbell lab is a highly collaborative environment, and we welcome scientists from all backgrounds. Our research combines field-based, experimental, and computational approaches to tackle fundamental questions in human genomics and evolution. In particular, we are interested in the past migration and admixture of modern humans in the Arabian Peninsula (AP) and Africa. Furthermore, we seek to identify variants that contribute to the development of normal variable traits (e.g., lactase persistence and skin pigmentation, as well as related phenotypes) and complex diseases (e.g., kidney and breast cancers). We also work with top-notch collaborators to investigate the dynamics of the gut microbiome in urban and rural populations in the AP. The successful applicant will contribute to the completion of these ongoing studies and will be encouraged to explore other projects that broadly fit within the lab's research interests and current funding.

Responsibilities:

The postdoctoral scholar is expected to perform analysis of large-scale genomic/phenotypic data from diverse human populations and collaborate with other scientists in the United States and abroad. Furthermore, this individual will lead multiple projects, work in a multidisciplinary environment and present/publish results in scientific conferences/journals. The postdoctoral scholar will also mentor graduate and/or undergraduate students in the lab.

Qualifications: The ideal candidate will have a Ph.D. in Population Genetics, Bioinformatics, Computational Biology, Biostatistics, Biological Anthropology, or in a related discipline. Proficiency in one or more programming languages (e.g., Python, Perl, R, etc.) and in cluster computing is essential. Prior experience with analyzing genotyping and next-generation sequencing data is also required.

Salary and duration:

The position is renewable annually for a maximum of

three years contingent upon satisfactory performance and continued funding. Salary will be commensurate with qualifications and experience. The University of Southern California also offers competitive benefits that include medical, dental, and vision.

Interested applicants should submit: 1) a cover letter; 2) a complete CV detailing scientific experience, examples of technical skills, publications, presentations, etc.; 3) a one-page statement that includes research interests, experience with genomic data, and career aspirations; and 4) contact information for three references to mc44680@usc.edu with the advertised position and the applicant's name in the subject line.

Applications will be reviewed until December 1st, 2021, and the position is expected to begin in the Spring 2022 semester. However, the specific start date is negotiable.

Informal inquiries about this position can be directed to the lab's Principal Investigator, Dr. Michael C. Campbell, at mc44680@usc.edu

Best wishes

Michael

Michael C. Campbell, Ph.D. Department of Biological Sciences Human and Evolutionary Biology Section University Park Campus 3616 Trousdale Parkway, AHF B10E Los Angeles, California 90089

<https://dornsife.usc.edu/cf/faculty-and-staff/faculty.cfm?pid=1105230> Michael Campbell <mc44680@usc.edu>

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## UTexasArlington LizardNiches

Post-Doctoral Scholar Position in Evolutionary Community Ecology (Lizards, Insects)

A pdf version of this ad can be accessed at: [https://frishkofflab.files.wordpress.com/2021/08/-frishkoff\\_lab\\_postdoc.2022.pdf](https://frishkofflab.files.wordpress.com/2021/08/-frishkoff_lab_postdoc.2022.pdf) Application review: Begins 1 December 2021, continues until position filled Position start date: Flexible: Approx. March-May 2022 Position duration: Up to 3 years Starting salary: \$54,000/year plus benefits, and travel funds to attend conferences. Position location: Primarily at University of Texas at Arlington, Arlington, TX (Dallas Fort-Worth Metroplex), with approx. 3 months per year conducting field work in Puerto Rico, Jamaica and the Dominican Republic

Summary The postdoctoral scholar will join a col-

laborative team of researchers elucidating how Anolis lizard niches evolve along dietary, habitat (vegetation structure), and temperature axes. The postdoc will be primarily based out of the Frishkoff Lab ([www.frishkofflab.com](http://www.frishkofflab.com)) at the University of Texas at Arlington, but will collaborate closely with researchers in the laboratories of Martha Muñoz (Yale University) and Luke Mahler (University of Toronto). Anolis lizards form diverse communities on the islands of the Greater Antilles in the Caribbean. But why some species both dominate local communities, and are geographically widespread within individual islands, is unclear. As part of a three-year NSF-funded project, the postdoc will characterize species' geographic distributions, local abundances in communities, and niche breadths in three replicate adaptive radiations across Puerto Rico, Jamaica, and the Dominican Republic. In particular, the postdoc will lead the characterization of anoles' community structures and their dietary niches with respect to their insect prey, though will be involved in project activities related to the thermal and vegetation structural niche as well.

Specifically, the postdoc will be responsible for: \* Co-leading field expeditions of 6-10 researchers to Puerto Rico, Jamaica, and the Dominican Republic to: - quantify Anolis lizard abundance in standardized plot surveys across environments on each island - collect insect community samples using sweep nets, pitfall traps, and other methods - collect Anolis fecal samples for metagenomic barcoding dietary analysis \* Conducting analysis of Anolis dietary niches through metagenomic barcoding and sequencing of fecal samples at UTA. Additionally, the post-doc will work with undergraduate team members to: - Identify insects and assess total biomass and body size distributions across sites - Sanger sequence representative insects from field collections to build sequence-to-specimen library \* Managing resulting data \* Analyzing lizard dietary niche breadth in relation to lizard abundance, environment, and insect availability across sites \* Preparing scientific manuscripts \* Mentoring junior researchers

Additionally, the postdoc will be encouraged to develop independent ideas pertaining to Anolis lizards and/or insect community ecology in the system. The postdoc will collaborate closely with affiliated labs, and will be supported to travel to the University of Toronto for several weeks as a visiting scholar to work collaboratively on project activities and to develop skills in phylogenetic comparative analysis with the Mahler Lab.

Initial appointment will be for one year, with the expectation of extension for two additional years contingent on performance.

Requirements: \* PhD in ecology or related field \* Quantitative statistical skills and familiarity with analysis in R \* Excitement to conduct tropical fieldwork in a variety of environments, sometimes with minimal amenities \* Strong communication skills, and ability to work both as part of a team and independently \* Demonstrated capacity to develop, conduct, and complete projects, as evidenced by a publication record

Preferred, but not required skills: \* Experience with tropical field biology \* Experience in entomology and insect identification \* Experience with Illumina sequencing, especially metabarcoding \* Experience with field herpetology

Please provide: (1) a cover letter detailing your interest in the position, your qualifications, your general research interests, and relevant experiences; (2) a CV; (3) names and contact information of three academic references; and (4) 1-2 publications

Please submit these materials as a single pdf to Dr. Luke Frishkoff (luke.frishkoff@uta.edu) with the subject line: "Anolis niche postdoc".

"luke.frishkoff@uta.edu" <luke.frishkoff@uta.edu>

## UVirginia CoevolutionaryGenetics

The Department of Biology at the University of Virginia invites applicants for a post-doctoral Research Associate position in the lab of Professor Amanda Gibson as part of a 5-year NIH-funded project.

The big questions we're pursuing with this project are:

- o How do organisms adapt to rampant uncertainty?
- o In what ways does context, both environmental and genetic, change the alleles that matter for fitness?
- o To what extent do these genetic interactions confound our ability to map genotype to phenotype? (and can we overcome this?)

We use resistance to coevolving parasites as a model trait to get at these questions. The work makes use of the experimental tools and resources available for the model nematode *C. elegans* and its natural parasites, including experimental evolution, cryogenic preservation, high-throughput phenotyping, transgenic methods, wild isolates with whole genome sequences, and public resources for genetic mapping. You can find read more about the position and the lab at <https://coevolving.org/join-us/>

REQUIRED QUALIFICATIONS: o A PhD in Biology

or a related field by the start date

o Excellent written and oral communication, demonstrated by a strong publication record, consistent with the candidate's career stage, and presentations at conferences

o Demonstrated ambition, creativity, independence, and ability to work well with others

o A strong background in experimental design, data analysis, and data management

o Interest and confidence in developing new techniques for hypothesis testing

o Experience in mentoring undergraduate students and a dedication to promoting underrepresented groups in STEM

PREFERRED QUALIFICATIONS: o Demonstrated strengths in evolutionary genetics, experimental evolution, coevolution or closely allied fields o Experience with or interest in learning about analysis and interpretation of genomic data and design of mapping studies

The Biology Department at UVA (<http://bio.as.virginia.edu/>) is an excellent training environment for curious, highly motivated scientists. The successful applicant can expect to interact frequently with the department's strong, collegial group of evolutionary ecologists and geneticists (<https://www.eebvirginia.org/>). In joining the lab, new members sign on to our commitment to promoting an inclusive and safe environment, supporting all the members of our team in realizing their full potential, and actively valuing the creativity and productivity that comes from the meeting of diverse minds.

APPLICATION PROCEDURE: Apply online at [https://uva.wd1.myworkdayjobs.com/en-US/-UVAJobs/job/Charlottesville-VA/Research-Associate-in-Biology\\_R0028762](https://uva.wd1.myworkdayjobs.com/en-US/-UVAJobs/job/Charlottesville-VA/Research-Associate-in-Biology_R0028762) and attach a cover letter, curriculum vitae, and contact information for three individuals who can provide professional reference letters. In the cover letter, please address your fit with the qualifications above and your experience in mentoring undergraduates. Applications by members of underrepresented groups are strongly encouraged. Please note that multiple documents can be uploaded in the box.

APPLICATION DEADLINE: Review of applications will begin on October 15, 2021. Start date is flexible. The University will perform background checks on all new hires prior to employment.

If interested, please contact Amanda Gibson, Assistant Professor, at [akg5nq@virginia.edu](mailto:akg5nq@virginia.edu) to discuss the position.



The University of Virginia, including the UVA Health System which represents the UVA Medical Center, Schools of Medicine and Nursing, UVA Physician's Group and the Claude Moore Health Sciences Library, are fundamentally committed to the diversity of our faculty and staff. We believe diversity is excellence expressing itself through every person's perspectives and lived experiences. We are equal opportunity and affirmative action employers. All qualified applicants will receive consideration for employment without regard to age, color, disability, gender identity or expression, marital status, national or ethnic origin, political affiliation, race, religion, sex (including pregnancy), sexual orientation, veteran status, and family medical or genetic information.

–

Amanda Kyle Gibson, Ph.D. Assistant Professor (she/her)

Physical Life Sciences Building, RM 114 Department of Biology University of Virginia Charlottesville, VA

Email: [akg5nq@virginia.edu](mailto:akg5nq@virginia.edu) Website: <https://coevolving.org/> “Gibson, Amanda K (akg5nq)” <[akg5nq@virginia.edu](mailto:akg5nq@virginia.edu)>

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## VirginiaTech ChestnutGenomics

Research Associate/Post-doc to study the genomics of blight resistance in *Castanea*

**Job Description** The Holliday lab at Virginia Tech, in collaboration with The American Chestnut Foundation (TACF), is seeking a post-doctoral fellow for two years to study the evolutionary genomics of chestnut blight resistance in *Castanea*. At the turn of the twentieth century, the introduction of the chestnut blight fungus (*Cryphonectria parasitica*) killed approximately four billion American chestnuts in the forests of Eastern United States. Asian *Castanea* species are resistant to chestnut blight whereas the North American and European

species are susceptible. We would like to better understand the evolution and genetic networks underlying blight resistance to enable gene editing to improve the blight resistance of American chestnut. The successful candidate will take the lead on the following analyses:

- Estimate phylogenies and divergence times among host (*Castanea* spp.) and pathogen (*Cryphonectria* spp.) to test alternative hypotheses about the evolution of blight resistance.
- From whole genome resequence data, detect signatures of positive or balancing selection in blight resistant Asian *Castanea* species that are absent or reduced in susceptible European and North American congeners.
- Use RNA-seq timecourse data to compare gene expression in the stems of Chinese chestnut, American chestnut, and F1 hybrids of these species. Detect which gene are differentially expressed and determine whether these expression differences are regulated in cis or trans.
- Compare the annotated chromosome scale reference genomes of American chestnut and Chinese chestnut to detect presence/absence variants, copy number variants, and non-synonymous, and potentially deleterious alleles in genes and pathways hypothesized to be important for blight resistance.
- Use machine-learning approaches to integrate data sources and discover candidate genes involved in resistance. Specifically, integrate QTL mapping of resistance in hybrid populations, differential gene expression analyses, signatures of natural selection, and comparative genomic evidence.

Note that the above data are or will be in hand soon. No data generation or lab work will be expected.

**Required qualifications** - Ph.D. in population genomics, computational biology, or a related field - Experience and/or desire to learn bioinformatics, phylogenomics, population genomics, differential gene expression analyses, and machine learning. - Expertise in R, Python, and Linux scripting and implementation on high performance computing clusters

**Duration:** 2 years **Location:** Blacksburg, VA (Remote work may be considered) **Starting salary:** ~\$55k

Apply via the following link

<https://careers.pageuppeople.com/968/cw/en-us/job/-517541/research-associate-in-forest-genomics> Jason Holliday <[jah1@vt.edu](mailto:jah1@vt.edu)>

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## ENS Paris EvolQTGenetics Dec06

I am happy to announce that the graduate course on “Quantitative Evolutionary Genetics” is open for applications. The course is part of the IMaLiS master’s program of the Ecole Normale Supérieure (ENS) in Paris, and it will be held in-person at the Department of Biology of the ENS, 46 Rue d’Ulm, 75014 Paris France; from Monday, December 6th to Friday, December 17th, 2021. Attendance of the course is free and European students will be able to credit 6 ECTS.

This is a course that will cover the fundamental biological and mathematical concepts of quantitative genetics, as applied to the evolution of complex traits. The students will learn several models of quantitative genetics and how to partition and estimate the components of phenotypic variation, as well as the statistical study of these components (animal model) and of selection and selection trait responses (Robertson-Price identity). The course will discuss several advanced topics such as genomic selection, genome-wide association analysis and multivariate evolution (G-matrix, M-matrix, adaptive landscapes). We will study modern applications of quantitative genetics to understand selection and genetic drift in experimental and natural populations, particularly in the context of climate change. A large part of the second week of the course will be devoted to computer modelling the evolution of complex traits in tutored projects.

The faculty will be composed of Diala Abu Awad (Université Paris-Saclay), Alain Charcosset (INRAE), Christine Dillmann (Université Paris-Saclay), Arnaud Le Rouzic (CNRS), Maud Tenaillon (CNRS), Henrique Teotónio (ENS) and Pierre de Villemereuil (EPHE).

As prerequisites for the course, students will have the background in population genetics and quantitative genetics, and a keen interest in the mathematical founda-

tions of evolutionary theory. Students will further have a basic understanding of statistical inference and some experience with computer programming.

To apply, send a brief motivation letter with a CV (1-page max.) to Henrique Teotónio (teotonio@bio.ens.psl.eu).

Henrique TEOTONIO <teotonio@biologie.ens.fr>

## ENSParis ExperimentalEvolution Nov5

2nd call - Experimental Evolution course

IMPORTANT: If you have applied after the first call please re-apply

After one-year hiatus, I am happy to announce that the 7th edition of the course “Experimental Evolution: bringing theory and practice together” is open for applications. The course is part of the IMaLiS master’s program of the Ecole Normale Supérieure (ENS) in Paris, and the Vienna Graduate School of Population Genetics.

The course will be held in-person at the Department of Biology of the ENS, 46 Rue d’Ulm, 75014 Paris France; from Tuesday, November 2nd to Friday, November 5th, 2021. It is intended for graduate students but post-graduate researchers at any stage of their careers are most welcome. Attendance of the course is free and European students can credit 3 ECTS.

The course will introduce the experimental approaches employed to test hypotheses about natural selection and genetic drift, to estimate parameters about standing genetic variation, and as a means for gene discovery. We will discuss the use of several model organisms to address specific questions, ranging from asexual microbes to sexual metazoans, about domestication, adaptation

to novel environments and extinction. We will focus on the population genetic processes of phenotypic evolution, and will cover topics such as maintenance of genetic variation, developmental evolution, phenotypic plasticity and transgenerational effects, evolution of sex and breeding mode, among others. There will also be computer tutorials on experimental design and the analysis of genetic and phenotypic data.

The faculty will be composed of Luis-Miguel Chevin (CEFE, Montpellier), François Mallard (ENS Paris), Christian Schlichter (VetMed University, Vienna), Maud Tenaillon (DYGAP, Moulon), Olivier Tenaillon (IAME, Paris), and Henrique Teotonio (ENS Paris).

As prerequisites for the course, students will have a keen interest in understanding the fundamental processes and parameters of evolution, and will have had an undergraduate level introduction to population genetics and quantitative genetics. Students will further have a basic understanding of statistical analysis and computer programming.

To apply, send a brief motivation letter with CV (1-page max.) to Henrique Teotonio (teotonio@bio.ens.psl.eu) “teotonio@bio.ens.psl.eu” <teotonio@bio.ens.psl.eu>

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### Online aDNA Population Genomics Jan31-Feb4

Dear all,

registrations are now open for the ONLINE Physalia course on “Population genomics using ancient DNA data”

Dates: 31 January- 4 February

Course website: ( <https://www.physalia-courses.org/-courses-workshops/adna-popgen/> )

Instructors: Dr C. Eduardo Guerra Amorim (California State University Northridge, USA) and Diana Cruz-Davalos (University of Lausanne, CH)

In this course, we will explore how ancient DNA (aDNA) data is generated and analyzed in population genomic research. On the first day of the course, participants will learn about the differences between aDNA and DNA obtained from archeological material, and how to control for DNA degradation. From Day 2 through Day 5, participants will learn about the theory and application of the main statistical methods used to analyze aDNA

data. The course is structured as a combination of lectures and hands-on exercises, which will be contextualized with real research questions. Hands-on exercises will be run in a Linux environment and visualization will be run in R using RStudio.

Here is the full list of our courses and Workshops: ( <https://www.physalia-courses.org/courses-workshops/> )

Should you have any questions, please feel free to contact us: [info@physalia-courses.org](mailto:info@physalia-courses.org)

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR  
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### Online Conservation Genetics In The Tropics Oct18-29

We are happy to announce Conservation Genetics in the Tropics 2021, which will be all online this year.

Many conservation genetics tools have been developed for use in temperate other high latitude habitats, and so not all of these tools translate to the tropics. Tropical habitats share some features which complicate the application of some conservation genetics tools which are heavily relied upon in higher latitudes, and also share some basic questions and problems that are less of an issue in higher latitudes or other, better studies and/ or less diverse habitats.

This course will discuss practical issues, genetic and genomic theory, tools and analyses as applied to issues relevant to conservation in the tropics. Some basic questions of conservation importance include describing species diversity, determining species distributions, characterizing the basic biology of species, and understanding demographic history and population size and structure. Underlying biogeographic histories that have shaped communities, and the biotic interactions within those communities are also of fundamental importance. There are optional online computer practicals in parallel with the lectures, seminars and discussions.

This course is designed with students and practitioners of Conservation Biology or Conservation Genetics in the tropical regions of America, Africa and Asia in mind.

This course will take place October 18-29 entirely online, hosted by the Estación Biológica de Doñana (www.ebd.csic.es). In order to best accommodate people across many time zones, this course will consist of a combination of pre-recorded lectures and seminars, and synchronous discussions and practicals. The course will be held in English.

For more information, check out the website: <http://consevol.org/consgentropicscourse.html> Jennifer Leonard Conservation and Evolutionary Genetics Group Estación Biológica de Doñana Avd. Americo Vespucio 26 41092 Sevilla, Spain

[www.consevol.org](http://www.consevol.org) [www.consevol.org](http://www.consevol.org)

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## Online DataAnalysisWithPython Jan24-28

Dear all,

registrations are now open for the Physalia course “Python Programming for Data Analysis”: (<https://www.physalia-courses.org/courses-workshops/course2/>)

It will be held online in January, 24th-28th

In our course, the student will learn about the powerful tools to perform “data wrangling”, i.e. to clean, unify and transform “raw data” into an accessible dataset to make it more appropriate for a variety of downstream analyses. This course will introduce the learner to the basics of the Python programming language and its data science libraries such as NumPy and Pandas as well as data visualization libraries such as Matplotlib, Altair, and Plotly. By the end of this course, students will be able to take “raw data”, clean it, manipulate it, and run basic descriptive statistical analyses. Lessons consist of lectures followed by practical exercises where students will put into practice what they just learned during the course by solving problems and exercises of increasing difficulty.

Here you can find the full list of our courses and Workshops: (<https://www.physalia-courses.org/courses-workshops/>)

Should you have any questions, please feel free to contact us: [info@physalia-courses.org](mailto:info@physalia-courses.org)

All the best,

Carlo

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“[info@physalia-courses.org](mailto:info@physalia-courses.org)” <[info@physalia-courses.org](mailto:info@physalia-courses.org)>

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## Online Epigenomics Feb28-Mar4

Dear all,

registrations are now open for the 2nd edition of the Physalia course “NGS analysis for gene regulation and epigenomics”: (<https://www.physalia-courses.org/courses-workshops/course59b/>)

When: 11-15 January 2021

In this course, we will cover a broad range of software and analysis workflows that extend over the spectrum from the best practices in the quantitative analysis of ChIP-seq and ATAC-seq data to the analysis of the chromatin 3D structure (such as A/B compartments, chromatin loops, or TADs). This course will help the attendees gain accurate insights into local and spatial regulatory functions of the chromatin.

We will start by introducing general concepts of chromatin biology. >From there, we will then continue to describe all major analysis steps from the raw sequencing data to the processed and usable data. Finally, we will focus more specifically on the different analyses strategies to use to extract information from genomic datasets such as Hi-C, ATAC-seq or ChIP-seq

Here you can find the full list of our Courses and Workshops: (<https://www.physalia-courses.org/courses-workshops/>)

Should you have any questions, please feel free to contact us: [info@physalia-courses.org](mailto:info@physalia-courses.org)

All the best,

Carlo

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## Online FromFossilsToMind Nov30-Dec1

Dear Colleagues,

We are pleased to announce that our workshop, “From Fossils to Mind”, will take place on the 30th of November and 1st of December 2021, online.

Registration and abstract submission is now open!

Please find all the information on the website <https://saneurosoc.co.za/fromfossilstomind/> . Please share with students, postdocs and interested colleagues.

All the best, Tanya, Ami,  $\frac{1}{2}$ lie, and Alexandra

Alexandra Allison de Sousa  
<alexandraallisonsousa@gmail.com> Alexandra  
Allison de Sousa <alexandraallisonsousa@gmail.com>

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## Online GenomicPrediction Feb8-12

Dear all,

registrations are now open for the Physalia course “Genome-wide prediction of complex traits in humans, plants and animals”:( <https://www.physalia-courses.org/courses-workshops/course49b/> )

It will be held online in February, 7th-11th.

This course will introduce students, researchers and professionals to the steps needed to acquire expertise in the genomic prediction area applied to animals, plants and humans. We will start by introducing general concepts of Quantitative Genetics and mixed model theory, progressively describing all steps and putting there seamlessly together in a general workflow.

### LEARNING OUTCOMES

Interpreting and calculating the genomic breeding value and genomic risk score Understanding the different steps involved in a typical genomic prediction analysis and how to implement computer tools to carry them on. Implement cross validation design to estimate the ability of genomic data to predict complex traits, and its application in human genetics and breeding programs.

Here you can find the full list of our courses and Workshops: ( <https://www.physalia-courses.org/courses-workshops/> )

Should you have any questions, please feel free to contact us: [info@physalia-courses.org](mailto:info@physalia-courses.org)

All the best,

Carlo

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## Online MachineLearningInR Feb21-25

Dear all,

registrations are now open for our ONLINE course “Machine Learning in R”

Dates: 21-25 February 2022

Course website: ( <https://www.physalia-courses.org/courses-workshops/course43/> )

The objective of the course is to provide a broad hands-on introduction to the use of multivariate methods and machine learning for the analysis of complex biological datasets.

The syllabus has been planned for people with zero or very basic knowledge of machine learning. Students are assumed to have basic familiarity with R programming language.

Programme: ( <https://www.physalia-courses.org/courses-workshops/course43/curriculum43/> )

Here is the full list of our courses and Workshops: ( <https://www.physalia-courses.org/courses-workshops/> )

Best regards,

Carlo

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## Online Macroevolutionary Dynamics Oct4-15

Online course Understanding Macroevolutionary Dynamics using RPANDA and jPANDA

Dear colleague,

Registration is open for the course “Understanding Macroevolutionary Dynamics using RPANDA and jPANDA”, October 4th-15th, 2021

Schedule: Online live sessions on 4th, 6th, 8th, 11th, 13th, 15th from 14:00 to 17:00 (Madrid time zone)

Instructors: Dr. Hi<sub>2</sub>Li<sub>2</sub>ne Morton (IBENS, France), Sophia Lambert (IBENS / MNHN, France), Dr. Fabien Condamine (Institut des Sciences de l'Evolution de Montpellier, France), Dr. Ignacio Quintero (IBENS, France), Dr. Julien Clavel (CNRS, France), Dr. Jonathan Drury (Durham University, UK) and Dr. Benoit Perez-Lamarque (IBENS, France)

Course Overview:

Phylogenetic analyses are central for understanding the ecological and evolutionary processes shaping present-day biodiversity patterns.

In this course participants will learn phylogenetic analyses with the RPANDA R package. They will also have a quick introduction to Julia and to the jPANDA Julia package.

The RPANDA package contains tools for macroevolutionary analyses on phylogenetic trees, in particular for the analysis of diversification and trait evolution from comparative data.

The instructors will introduce the theory behind these analyses, run practicals with illustrative examples, and guide the interpretation of the output of these analyses.

This workshop is primarily intended for (but is not exclusive to) graduate students and postdocs. Participants are encouraged to bring their own phylogenetic datasets (with potentially matching trait, biogeographic and paleoenvironmental datasets).

More information and registrations: <https://www.transmittingscience.com/courses/evolution/-understanding-macroevolutionary-dynamics-using-rpanda-and-jpanda/> or writing to [courses@transmittingscience.com](mailto:courses@transmittingscience.com)

Best wishes

Sole

Soledad De Esteban-Trivigno, PhD. (she/her) Scientific Director [www.transmittingscience.com](http://www.transmittingscience.com) Twitter: @soledeesteban Instagram: @soledaddeesteban Researchgate: [https://www.researchgate.net/profile/Soledad\\_De\\_Esteban-Trivigno](https://www.researchgate.net/profile/Soledad_De_Esteban-Trivigno) 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).

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## Online RADSeq Sep13-16

The University of Connecticut's Computational Biology Core is offering a workshop on assaying genetic variation using restriction-associated DNA sequencing, or RAD-Seq.

The workshop will cover basic concepts and walk through a complete analysis on a high performance computing cluster. The analysis will start with raw reads and go through some very basic analyses of population genetic structure. The core learning goal is to familiarize attendees with the steps necessary to analyze RAD-seq data, the tools available, common data formats, and possible pitfalls they may encounter.

We'll use data collected from a landscape genetic study of arctic grayling, a marine fish, using the ddRAD method (Peterson et al. 2012). All code required to complete the full analysis will be provided in a public github repository, and sessions recordings will be available to all participants after the workshop.

The workshop will take place over 4 days for three hours each day.

Dates: September 13-16 (4 days)

Time: 9.00am - 12.00pm

Location: Online

Cost: \$350/483 USD internal/external participants

Workshop schedule:

Day 1: Introduction to Linux/HPC

Day 2: Introduction to RADSeq, high throughput sequencing data, quality control, read mapping

Day 3: Reference-based and de novo variant discovery approaches.

Day 4: Manipulating, filtering, reformatting output files. Basic population genomic analyses.

Registration

To register, please follow this link: <https://forms.gle/-Xy91jtBK7wqRordn7> Workshop FAQ

Who should attend?

Anyone who wants to learn the fundamentals of RAD-seq analysis.

What are the prerequisites?

Prior bioinformatic experience is not required. We have dedicated the first day of the workshop to the basics of Linux and high performance computing.

What do I need?

You will need your own laptop to use, have a recent version of R, RStudio installed, and some other applications. We will send you details of software and installation instructions with your registration acknowledgement email.

Can I bring my own data?

We will provide experimental datasets for use during the workshop, as this helps to keep the workshop moving. There will be time, however, to discuss your own datasets and how you might work with them outside of the workshop.

How much does it cost?

The registration fee is \$350/483 for internal/external participants.

How do I pay?

The fee is due at the time of registration. UConn affiliates can use KFS accounts. The only other means of payment we currently accept is credit card. Due to some complications we cannot accept international wire transfers at this time.

Where is the workshop?

It will be held on Blackboard-Collaborate platform, and will run from 9:00am to 12:00pm on the dates indicated.

How do I apply?

All registration is "first-come, first-served." There is no application process. Sign up as soon as possible to ensure your place in the workshop.

Questions?

If you have any questions, please don't hesitate to contact us at [cbsupport@uconn.edu](mailto:cbsupport@uconn.edu)

"Reid, Noah" <[noah.reid@uconn.edu](mailto:noah.reid@uconn.edu)>

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## Online RNAseqDenovoTranscriptome Oct4-7

The University of Connecticut's Computational Biology Core is offering a workshop on non-model RNA-seq focused on identifying differentially expressed genes using

a de novo transcriptome and annotation.

The workshop will cover de novo transcriptome assembly, annotation, including the identification of contaminants, quantification of expression level, exploratory analysis, differential expression analysis and functional enrichment analysis.

The workshop will take place over 4 days for three hours each day.

Dates: October 4-7 (4 days)

Time: October 4: 8:30am-12:00pm. October 5-7: 9:00am - 12:00pm

Location: Online

Cost: \$350/\$483 for UConn affiliated/external participants.

Workshop schedule

Day 1: Introduction to Linux, High performance computing

Day 2: Basic data QC, Transcriptome assembly and annotation.

Day 3-4 : Expression quantification, exploratory analysis/QC, statistical analysis, functional enrichment.

Registration

To register, please follow this link: <https://forms.gle/RdpGfZVpjYRwodrx6> <  
<https://forms.gle/5k4NfzGK5EVRUGvS9> >

Workshop FAQ

Who should attend?

Anyone who wants to learn the fundamentals of RNA-seq analysis with an ad hoc researcher-generated transcriptome. Prior course participants have included faculty, post docs, grad students, advanced undergraduates, staff, and industry researchers.

What are the prerequisites?

Prior bioinformatic experience is not required. We have dedicated the first day of workshop to the basics of Linux and high performance computing.

What do I need?

You will need your own laptop to use, have a recent version of R, RStudio installed, and some other applications. We will send you details of software and installation instructions with your registration acknowledgement email.

I can't attend part of the workshop because I have other obligations. Are the sessions recorded?

Yes, each session is recorded and made available to

participants that day.

Can I bring my own data?

We will provide experimental datasets for use during the workshop, as this helps to keep the workshop moving. There will be time, however, to discuss your own datasets and how you might work with them outside of the workshop.

How much does it cost?

The registration fee is \$350 for UConn affiliates, \$483 for external participants.

How do I pay?

The fee is due at the time of registration. UConn affiliates can use KFS accounts. The only other means of payment we currently accept is credit card. Due to some complications we cannot accept international wire transfers at this time.

Where is the workshop?

It will be held on Zoom, and will run from 9:00am to 12:00pm on the dates indicated.

How do I apply?

All registration is "first-come, first-served." There is no application process. Sign up as soon as possible to ensure your place in the workshop.

Questions?

If you have any questions, please don't hesitate to contact us at [cbcsupport@uconn.edu](mailto:cbcsupport@uconn.edu)

"Reid, Noah" <[noah.reid@uconn.edu](mailto:noah.reid@uconn.edu)>

## Online Seedbanks Oct5,12,19

Project Baseline Seedbank Workshop Series - FREE & VIRTUAL

Learn more about this VAST seedbank resource specifically designed for studying evo/eco responses to climate change! It is time for the scientific community to begin using this valuable resource.

Registration is now open!

<https://docs.google.com/forms/d/e/1FAIpQLSfAsD9gYDdUy6fRr6nS08sCg0-jo0HN74wc0-nd8bqajvfPgw/viewform> Interested in plant responses to global change? Want to learn more, including how YOU can use this resource in YOUR research?



Join our FREE, online workshop series October 5, 12, and 19: 3:00-5:00 EST

1. Introducing Project Baseline: A research seedbank to study plant evolution & ecology 2. Resurrection Ecology Basics: A powerful tool for studying plant using preserved seeds 3. Getting Started: Meet & collaborate with a diverse group of plant researchers

Registration form: <https://docs.google.com/forms/d/e/1FAIpQLSfAsD9gYDdUy6fRr6nS08sCg0-jo0HN74wc0-nd8bqajvfPgw/viewform> project-baseline@gmail.com Facebook: @projectbaseline@seedbank Twitter: @PBseedbank <https://www.baselineseedbank.org/> Project Baseline is funded with support from the NSF and the NLGRP

“Weber, Jennifer J” <jennifer.weber@siu.edu>

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## Online SexChromosomeEvolution Feb14-18

Dear all,

registrations are now open for our online “Sex Chromosome Evolution” course : ( <https://www.physalia-courses.org/courses-workshops/sexchr/> )

Dates: 14-18 February 2022

This course will introduce attendees to how the genomic and transcriptomic data can be used to detect homomorphic/heteromorphic sex chromosomes and inform the cause and consequences of sex chromosome differentiation. The instructors will guide students through study design, genomic/transcriptomic data collection methods, handling of raw genomic/transcriptomic data, and methods to identify sex chromosomes. Then, we will work through a suite of analyses looking at the molecular evolution of sex chromosomes, particularly the timing and patterns of recombination suppression, gene gain/loss, gene expression differentiation, and genome divergence. We will provide background on the theory and hands-on exercises, running analysis, and interpreting results. After completing the course, the participants should be able to manipulate, visualize and interpret genomic data and patterns of sex chromosome evolution.

Here you can find the full list of our Courses and Workshops: ( <https://www.physalia-courses.org/courses-workshops/> )

Should you have any questions, please feel free to contact us: [info@physalia-courses.org](mailto:info@physalia-courses.org)

All the best,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR  
[info@physalia-courses.org](mailto:info@physalia-courses.org) mobile: +49 17645230846 Follow us on ( <https://twitter.com/Physacourses> )

“info@physalia-courses.org”

<info@physalia-courses.org>

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## Online SpeciesDistributionModelling Dec6

ONLINE COURSE - Species distribution modelling with Bayesian statistics in R (SDMB03) This course will be delivered live

<https://www.prstatistics.com/course/species-distribution-modelling-with-bayesian-statistics-in-r-sdmb03/> 6 December 2021-10 December 2021

This is a ‘LIVE COURSE’ - the instructor will be delivering lectures and coaching attendees through the accompanying computer practical’s via video link, a good internet connection is essential.

TIME ZONE - GMT+1 - however all sessions will be recorded and made available allowing attendees from different time zones to follow a day behind with an additional 1/2 days support after the official course finish date (please email [oliverhooker@prstatistics.com](mailto:oliverhooker@prstatistics.com) for full details or to discuss how we can accommodate you).

Please feel free to email [oliverhooker@prstatistics.com](mailto:oliverhooker@prstatistics.com) with any questions, full course details below.

Course Overview:

Bayesian Additive Regression Trees (BART) are a powerful machine learning technique with very promising potential applications in ecology and biogeography in general, and in species distribution modelling (SDM) in particular. Unlike most other SDM methods, BART models can generally provide a well-balanced performance regarding both main aspects of predictive accuracy, namely discrimination (i.e. distinguishing presence from absence localities) and calibration (i.e., having predicted probabilities reflect the species’s gradual occurrence frequencies). BART can generate accurate predictions without overfitting to noise or to particular cases in the data. As it is a cutting-edge technique in this field, BART is not yet routinely included in SDM workflows or in ensemble modelling packages. This

course will include 1) an introduction or refresher on the essentials of the R language; 2) an introduction or refresher on species distribution modelling; 3) an overview of SDM methods of different complexity, including regression-based and machine-learning (both Bayesian and non-Bayesian) methods; 4) SDM building and block cross-validation focused on different aspects of model performance, including discrimination and calibration or reliability. We will use R packages `embarcadero`, `fuzzySim`; and `modEvA`; to see how BART can perform well when all these aspects are equally important, as well as to identify relevant predictors, map prediction uncertainty, plot partial dependence curves with Bayesian credible intervals, and map relative probability of presence regarding particular predictors. Students will apply all these techniques to their own species distribution data, or to example data that will be provided during the course.

#### Intended Audience

Any researchers (PhD and MSc students, post-docs, primary investigators) and environmental professionals who are interested in implementing best practices and state-of-the-art methods for modelling species' distributions or ecological niches, with applications to biogeography, evolutionary biology, spatial ecology, biodiversity conservation and related disciplines.

Email [oliverhooker@prstatistics.com](mailto:oliverhooker@prstatistics.com) with any questions

Other upcoming courses

Species Distribution Modeling using R (SDMR04) [www.prstatistics.com/course/species-distribution-modeling-using-r-sdmr04/](http://www.prstatistics.com/course/species-distribution-modeling-using-r-sdmr04/) 21 September 2021 - 30 September 2021

Introduction to eco-phylogenetics and comparative analyses using R (ECPH01) This course will be delivered live <https://www.prstatistics.com/course/introduction-to-eco-phylogenetics-and-comparative-analyses-using-r-ecph01/> 22 September 2021 - 28 September 2021

Multivariate analysis of ecological communities in R with the VEGAN package (VGNR03) [www.prstatistics.com/course/multivariate-analysis-of-ecological-communities-in-r-with-the-vegan-package-vgnr03/](http://www.prstatistics.com/course/multivariate-analysis-of-ecological-communities-in-r-with-the-vegan-package-vgnr03/) 4 October 2021 - 8 October

Introduction to Data Wrangling and Data Visualization using R (DWDV01) [www.prstatistics.com/course/introduction-to-data-wrangling-and-data-visualization-using-r-dwdv01/](http://www.prstatistics.com/course/introduction-to-data-wrangling-and-data-visualization-using-r-dwdv01/) 4 October 2021 - 8 October 2021

Introduction to Bayesian modelling with INLA (BMIN02) <https://www.prstatistics.com/course/introduction-to-bayesian-modelling-with-inla-bmin02/> 4 October 2021 - 8 October 2021

Landscape genetic data analysis using R (LNDG05)

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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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## Instructions

Instructions: To be added to the EvoDir 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](mailto: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](mailto: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  $\text{\LaTeX}$  files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category “Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:” and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly 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  $\text{\LaTeX}$  do not try to embed  $\text{\LaTeX}$  or  $\text{\TeX}$  in your message (or other formats) since my program will strip these from the message.