
E v o l D i r

September 1, 2021

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

Foreword

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

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

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



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ESEB StudentSeminarSeries

“ The first in the new ESEB Student Seminar Series last month was a success!

The next meeting will be on the 27th of August at 3PM Central European Summer Time where Anika Wohlleben will deliver a talk on the evolution of complex life cycles in parasites. Anika’s seminar will be followed by a Q&A session on her talk, as well as the opportunity to voice your opinions and suggestions regards ESEB to us (Falk and Ronan!) so we can pass feedback to the rest of the ESEB council. In case you have an immediate suggestion for the next council meeting on 25th August, please send us an email (egsr@eseb.org).

Follow this link to join the meeting: <https://us02web.zoom.us/j/84469119521?pwd=-WWF1ZVNhMXhNQjl6L3B4UjQzRURvQT09>
Meeting ID: 844 6911 9521 Passcode: 862776

If you want to be the next seminar speaker, do not hesitate to contact us at egsr@eseb.org

To make it easier for you to find out about future meetings, we have created a Twitter account where we will regularly post updates on future seminars and all other ESEB matters relevant to the Society’s student membership. You can find it under <https://twitter.com/EsebStudent> . Best regards, Falk and Ronan

Student Representatives European Society for Evolutionary Biology

Email: egsr@eseb.org Website: eseb.org/society/student-representatives/

Ronan James Osullivan <113499328@umail.ucc.ie>

Online CIGENE Genomics Autumn

Dear EvolDir members,

Hi, I hope all is well.

The CIGENE seminar series, Autumn 2021, will start up in September. We will continue with online streaming, but may also meet physically in the auditorium for some of the seminars. We will provide more information in due time before the seminar series starts.

For more information on CIGENE seminars, please visit: <https://cigene.no/cigene-seminar-series/> There are still a few open slots. If you are interested in giving a presentation, or know someone who may be willing to do so, please let us know through the above webpage.

Sincerely, ***We are hiring one more PhD student in evolutionary and functional genomics!!!***
<https://youtu.be/KNLIX3asTiE> Marie SAITOU, Ph.D. Tenure-Track Principal Investigator, Centre of Integrative Genetics (CIGENE), Faculty of Biosciences, Norwegian University of Life Sciences <https://sites.google.com/view/saitou-lab> Marie Saitou <marie.saitou@nmbu.no>

Online Transposons Oct7-8

Dear colleagues,

The free registration for the 5th Uppsala Transposon Symposium (virtual on October 07-08, 2021) is open!

Invited speakers: - Welkin E. Johnson (Boston College)
- Kathleen H. Burns (Dana-Farber Cancer Institute)

There will be coffee breaks (please B.Y.O.B.) and discussion rounds for networking, and the opportunity to present your research as a regular talk or lightning talk with poster. Submission deadline for abstracts on topics related to transposons and viruses is September 17.

You can find more information about the meeting and the link to the registration form here: <https://transposonsymposium.wordpress.com/5th-uppsala-transposon-symposium-going-fully-virtual/>
Welcome!

Please stay safe and best wishes, Alex
(on behalf of the organizing committee)

Organizing committee: - Alexander Suh (University of East Anglia and Uppsala University) - Claudia Kutter (Karolinska Institute) - Patric Jern (Uppsala University)
- Contact us: transposonsymposium@gmail.com

Ni½r du har kontakt med oss p½ Uppsala universitet med e-post si½ inneb½ det att vi behandlar dina personuppgifter. Fi½r att li½sa mer om hur vi gi½r det kan du li½sa h½r: <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> Alexander Suh <alexander.suh@ebc.uu.se>

Phoenix SocIntegrativeComparativeBiology Jan3-7

Halo-DaSH: The Deep and Shallow History of Aquatic Life's Passages between Marine and Freshwater Habitats. A symposium to be held at the Annual Meeting of the Society for Integrative and Comparative Biology (SICB) in Phoenix Arizona (Jan 3-7, 2021)

Marine and freshwater biota have long been intertwined. Major branches of the tree of life originated in the oceans and colonized freshwater habitats; these deep-time halo-transitions have transformed the biosphere and a broad range of taxa. Yet these transitions exist as shallow-time processes and halo-transitions occur today in both directions, offering the opportunity to investigate eco-evolutionary responses to changes in halo-habitat

in real time. Indeed, in the shallowest time scale for halo-transitions, individual organisms may live in both freshwater and marine environments, such as in diadromous fishes. Moving between fresh and marine waters requires navigating through estuarine zones of mixing that have their own uniquely demanding regimes. The organismal processes that permit halo-transitions provide an important context for exploring the deep-time patterns of evolutionary euryhalinity.

We have organized a symposium and workshop on the subject, with an accompanying contributed paper session, at the 2022 Annual Meeting of the Society of Integrative and Comparative Biology (SICB; 3-6 January, Phoenix Arizona). Information on the symposium and workshop are at our website, <https://draft.halodash.research.uconn.edu/>. Contributed papers on this subject will have their own dedicated session. Please consider submitting an abstract! Abstracts are due on 9/1, at <https://sicb.burkclients.com/meetings/-2022/abstracts/index.php>. Please direct any questions about this to eric.schultz@uconn.edu.

“Schultz, Eric” <eric.schultz@uconn.edu>

Switzerland ForestEvolution Sep14-17

EVOLTREE Conference 2021: Last reminder for on-site/online registration

The first EVOLTREE Conference on “Genomics and Adaptation in Forest Ecosystems” will take place 14-17 September, 2021, at WSL Birmensdorf in Switzerland. Thanks to the improved situation concerning the pandemic in many countries, we will hold the conference in hybrid format (on-site and online).

Registration is still possible - on-site: 15 August 2021 - online: 1 September 2021 at the registration website <https://conf.wsl.ch/evoltree/> Registration follows a two-step procedure (first as user of the registration tool, then as conference participant).

The conference focuses on the genomics and adaptation of trees and interacting species from evolutionary, demographic, ecological and conservation perspectives. It features - diverse topical sessions - two poster sessions - two teaching lectures - a half-day excursion - ample opportunities for scientific networking

For more information and the detailed program, visit our conference website: <http://www.evoltree.eu/>

index.php/network/current-information/news/10-news/news-middle/180-evoltree-conference Note that the on-site participation is subject to government travel restrictions that may change at short notice. To enter Switzerland, special rules apply at the moment for certain countries and regions (i.e., a 10-day quarantine). More details and respective links can be found on the conference webpage.

EVOLTREE (<http://evoltree.eu>) is a European network of research institutions and universities engaged in studying the evolution and functioning of forest ecosystems, in particular trees as the foundation species in forest stands. A prime topic in the face of ongoing climate change is to elucidate how trees, together with their associated organisms such as mycorrhizal fungi, respond to rapid environmental changes.

With best regards, the organizing committee:

Felix Gugerli, WSL Christian Rellstab, WSL Susanne Senn-Raschle, WSL

evoltree@wsl.ch

felix.gugerli@wsl.ch

UTartuOnline GeneForum Aug25-27

The Institute of Genomics of the University of Tartu cordially invites you to the 20th International Gene Forum 2021, August 25-27!

In response to the global COVID-19 pandemic, we are not able to organize the traditional conference and celebrate all together the 20th Gene Forum. We are gladly announcing, that this year's conference will be held online and is free of charge! It provides an opportunity for much wider audience to listen to presentations by top scientist in the field of genomics.

Due to its interdisciplinary scope, the conference brings together 18 distinguished experts from Europe, the US and Israel for discussion of the progress in the field. This year's presentations will cover themes from the use of genomic data in personalized medicine and applications

in healthcare, pharmacogenomics, regulatory genomics and molecular functions, population genomics and human microbiome interactions. Given the situation in the world, this year's Gene Forum will also have session on COVID-19 research.

As the organizers, we hope that the forthcoming Gene Forum 2021 will create an inspiring environment and be professionally stimulating.

Registration: *FREE* Register at <http://www.geneforum.ee>. After the conference, registered participants will have access to the recording of the presentations. An access link will be active 5 days.

More information can be found at <http://www.geneforum.ee>. Information is also available on socialmedia.

GeneForum 2021 speakers are:

Peter Donnelly, Genomics PLC, UK Samuli Ripatti, University of Helsinki/Institute for Molecular Medicine Finland (FIMM), Finland Gert Matthijs, KU Leuven, Belgium Cathryn Lewis King's College London, UK Andres Merits University of Tartu, Estonia Adrian Hayday, Francis Crick Institute and King's College, UK Andrea— Ganna Senior researcher at the Institute for Molecular Medicine Finland/— instructor at the Harvard Medical School / instructor at the Massachusetts General Hospital, Finland/USA Charity Nofziger PharmGenetix GmbH, Austria Ewan Pearson University of Dundee, Scotland Jesse Swen LUMC, Netherland Michael Zimmermann Structural and Computational Biology Unit, EMBL, Germany Yingyuan Fu University of Groningen, Netherland Judith Zaugg EMBL, Germany Urmo Vämsa, University of Tartu, Estonia Shai Shen-Orr Technion - Israel Institute of Technology, Israel Tilman Sanchez-Elsner University of Southampton, UK Richard Oram, University of Exeter, UK Matteo Fumagalli, Imperial Collage, UK

Additional information: geneforum@ut.ee

<https://www.facebook.com/events/339928894232569/?ref=newsfeed> See you at the Gene Forum!

Yours sincerely, Gene Forum 2021 Organising Committee

Anders Eriksson <anders.eriksson@ut.ee> Anders Eriksson <anders.eriksson@ut.ee>

GradStudentPositions

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AMU Poznan EvolutionaryImmunogenetics

Graduate position: AMU.Poznan.EvolutionaryImmunogenetics

PhD position in evolutionary biology is available for four years starting in NCN-funded project aiming to investigate coevolution between Lyme disease agent *Borrelia afzelli* and its rodent host, at the level of genes. The student will join Evolutionary Biology Group of Professor Jacek Radwan (<http://evobio.home.amu.edu.pl>). In addition to carrying out research in an enthusiastic team, the student will have opportunity to attend specialized courses for PhD students in English. The candidate should hold MSc degree in biological sciences or bioinformatics. Interested candidates should send their CV and a motivation letter (via email) to the project leader, who will provide further information about the project and application procedure (email: jradwan@amu.edu.pl).

Jacek Radwan <jacek.radwan@amu.edu.pl>

AustralianNatIU BatEcholocation

ANU.BatEcholocation

We are offering a fully-funded 3 year PhD position at the Australian National University. The project will

employ 3D modelling approaches to understand how bats modify sound during echolocation.

****Project background**** Bats possess some of the most extreme mammalian adaptations. Having evolved both echolocation and self-powered flight, bats underwent one of the greatest adaptive radiations in mammalian history, which enabled them to exploit an enormous untapped foraging niche: insects in the night sky. Bat echolocation is considered one of the most complex and diverse modes of sensory perception in animals, but its origin and evolutionary history is a highly contentious issue that remains unresolved. This is due to difficulty in inferring the echolocation capabilities of fossil species, along with a lack of molecular markers for echolocation in bats and their potential relatives. The broad aim of this project is to combine insights from craniofacial development, evolution and form-function engineering tests to uncover echolocation traits and assess how differences in cranial shape relate to sound production.

****The PhD position**** The PhD student will use 3D scan data, represented by diceCT (soft-tissue stained) and microCT, to construct and validate engineering models that simulate airway function in bats. These models will be used to understand the functional implications of cranial shape variation among echolocators.

****The project team**** The PhD student will work with a multi-disciplinary team of researchers, led by Dr Laura Wilson at ANU, in collaboration with Dr Jason Bourke (New York Institute of Technology), Assoc. Prof. Alistair Evans (Monash University) and Assoc. Prof. Daisuke Koyabu (University of Tsukuba, Japan).

****The student**** The successful applicant must have an excellent grade (i.e. H1 or HD/First Class International equivalent) in an Honours or MSc research program in

a relevant subject area and proven skills in scientific writing. The student should have a strong quantitative background in evolutionary morphology/zoology or, preferably, engineering and a willingness to learn computational modelling approaches. Experience with Finite Element Modelling or Computational Fluid Dynamics is desirable.

Interested applicants should send a cover letter outlining their motivation and experience, an academic CV, and a list of contact information for 1-3 academic referees to Dr Laura Wilson (Laura.Wilson@anu.edu.au) by 3 Sept 2021. This scholarship is open to Australian citizens, permanent residents and international students. The Australian National University is a member of the Group of Eight, Australia's leading research-intensive universities, and is ranked 31st in the world (QS World Rankings 2021). To find out more about research in our labs, please see: Wilson - <https://tinyurl.com/h9tctbmh>, Koyabu - <https://tinyurl.com/jphbnxdh>, Evans - <http://evomorph.org>, Bourke - <https://tinyurl.com/62yexdh3> The student will be embedded within the ARC ITTC on multiscale 3D imaging, modelling and manufacturing at the ANU: <https://m3d.edu.au> The successful candidate will be awarded a 3-year PhD scholarship (~AU \$28,597 p.a. tax free [2021 rate], indexed annually), with top-up available (\$5,000 p.a.) for qualified candidates. Start date anticipated Oct-Nov 2021.

Laura A. B. Wilson, Ph.D. ARC Future Fellow, Head of Biological Anthropology The Australian National University Canberra ACT 2601 Australia <https://researchers.anu.edu.au/researchers/wilson-1> Laura Wilson <Laura.Wilson@anu.edu.au>

Laura.Wilson@anu.edu.au

BOKU Vienna ForestGeneticsGenomics

The Department of Forest- and Soil Sciences, Institute of Silviculture is currently seeking (subject to project funding) a Postgraduate Research Associate Project employment (Reference code: 166) Extent of employment: 30 hours per week Duration of employment: 1st of October 2021, limited to 30th of September 2024 Workplace: 1190 Vienna, Peter-Jordan-Str. 82 Gross monthly salary and pay grade in terms of collective agreement for university staff (payable 14 times per year): B1, euro 2.228,60

The research project EicheFit (Climate-smart oak

forests: genetic adaptive potential of oak species, hybrids, seed sources and orchards), funded by the Austrian Forest Fund (Waldfonds), will investigate the genetic variability and drought stress tolerance of native and non-native oak species and provenances in Austria. In the framework of work package 4 (Northern red oak in Austria), genetic and genomic methods will be applied in order to examine the origin and genetic variation of northern red oak (*Quercus rubra* L.) populations in Austria and assess their suitability as a seed source for climate-smart forests.

For this project, we search a highly motivated research associate (without PhD) who will undertake both research and coordination activities. The project EicheFit will be conducted in cooperation with the Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BFW).

Responsibilities - Planning and implementation of leaf and seed collections in northern red oak stands - Organisation and supervision of molecular genetic analyses in the lab (genotyping at marker loci), population genetic analysis of the data resulting from genotyping - Contribution to the establishment and care of a progeny test, as well scientific supervision of the trial - Conception and conduction of a genome-wide association study (GWAS; association between phenotype and genotype) based on DNA-sequences (from next-generation sequencing; NGS), phenotypic and physiological data - Contribution to data management, project administration and work coordination with the partners - Publication of the results in scientific journals and application-oriented media - Planning and implementation of tendering and contracting for: 1) Seed harvesting 2) Genotyping by means of NGS, as well as 3) Phenotyping of the northern red oak seedlings

Required skills and qualifications - Diploma degree in forest / environmental sciences, biology or other equivalent university degree - Advanced knowledge in the research field of population genetics - Advanced knowledge in statistics, data analysis and bioinformatics - Experience in the use of statistical software packages (e.g. R) - Willingness to work in field trips for several days - Excellent knowledge of written and spoken English; a good knowledge of the German language is an advantage - Teamwork and communication skills - Driving licence of B class

Desirable skills and qualifications - Readiness to conduct a doctoral dissertation at the University of Natural Resources and Life Sciences (BOKU) Vienna - Experience in population genetic analysis using suitable software packages - Ability to deal with the Unix/Linux operating system - Knowledge of computer programming

languages (e.g. Pearl, Python) - Knowledge and experience in the field of forest reproductive material and forest genetics-

Applications can be submitted until: 2nd of September 2021 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 - Copies of diplomas and certificates to Personnel department, University of Natural Resources and Life Sciences, Peter-Jordan-Straße 70, 1190 Vienna; E-Mail: kerstin.buchmueller@boku.ac.at. (Reference code: 166)

We regret that we cannot reimburse applicants travel and lodging expenses incurred as part of the selection and hiring process.

Dr. Charalambos Neophytou Senior Scientist Institut für Waldbau Dept. für Wald- und Bodenkunde Universität für Bodenkultur Peter-Jordan-Straße 82/II A-1190 Wien Telefon: +43 1 47654-91335 charalambos.neophytou@boku.ac.at <http://short.boku.ac.at/neophytou.html> Charalambos Neophytou <charalambos.neophytou@boku.ac.at>

development and/or physiology in vertebrates. The candidate will be primarily focused on understanding how the genes identified by genetic mapping are expressed within developing feathers and how the resultant proteins function to create the remarkable nanostructures that underlie the peafowl's brilliant structural colors. The techniques to be used by the candidate will include (but are not limited to) in situ hybridization, antibody staining, light and electron microscopy, cell and tissue culture, virus-mediated transgenesis, CRISPR-Cas9-mediated knock-out, reporter assays, and HPLC.

The successful candidate will work directly with Miguel Carneiro (<https://scholar.google.pt/citations?user=onCfzJ4AAAAAJ&hl=pt-PT>) and Joseph Corbo (https://scholar.google.com/citations?user=o0Ic3_EAAAAAJ&hl=en). Questions can be directed to Miguel Carneiro (miguel.carneiro@cibio.up.pt).

The work will be primarily conducted at Joseph Corbo lab at Washington University, St Louis, USA, and Associação BIOPOLIS/CIBIO Research Center in Biodiversity and Genetic Resources, in Campus de Vairao, Rua Padre Armando Quintas n.º 7, Vairao, Portugal.

Application deadline: September 01, 2021

For more information: <https://cibio.up.pt/open-positions-careers/details/reference-biopolis-2021-08>

Questions can be directed to Miguel Carneiro: miguel.carneiro@cibio.up.pt

CIBIO-InBIO Divulgaçã

CIBIO Portugal Evolutionary Biology

PhD holder research position

Main research field: Biological Sciences

A second PhD holder Research position (Reference BIOPOLIS 2021-08) is available at CIBIO-InBIO, through BIOPOLIS, funded by the project "The Genetic, Cellular, and Photonic Mechanisms of Avian Structural Colouration (reference 101000504)".

We seek a highly motivated postdoctoral fellow to be a key player in a multi-team collaboration to elucidate the genetic, cellular, molecular, and photonic basis of avian structural coloration using the tail feathers of the Indian peafowl (*Pavo cristatus*) as a model system. The ideal candidate will have prior experience in using the techniques of cell and molecular biology to study

Clermont-Ferrand France Polyploid Evolution

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>)

LABORATORY: INRAE-UCA UMR 1095 GDEC, Génétique et 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 letter of support to peter.civan@inrae.fr and jerome.salse@inrae.fr

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 projects 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) * scientific curiosity, strong motivation to learn new methods and deliver the outlined goals

— / —

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>

Israel Evolutionary Change

Prof. Gila Kahila Bar-Gal's laboratory is seeking a doctoral student candidate. The research project focuses on the evolutionary change of biodiversity in Israel since the Natufian period.

Global climate change and rapid anthropogenic alterations to biotic and a-biotic conditions are accelerating biodiversity decline and changing ecosystems' functions. Loss of genetic diversity and ecological integrity might ultimately reduce the evolutionary potential of animal populations experiencing rapidly changing conditions. The proposed multidisciplinary research will focus on understanding the genetic changes among species sharing the same habitat and ecosystem at the southern Levant such as the mountain gazelle (*Gazella gazella*)

and the jungle cat (*Felis chaus*). The genetic changes will be studied using state-of-the-art genomic analysis of samples from the Natufian period (~ 15,000 years ago) to the present day.

I am seeking a strong independent graduate student, background in bioinformatics is an advantage. The candidate will receive a scholarship for the entire period of her/his PhD. study. The project will be carried out in collaboration with a laboratory in the United States, as well as with researchers from other institutions in France and Israel.

All interested candidates need to send a letter of interest, CV and copy of university transcripts, until the 10th of September 2021. The research can start as early as October 2021.

Please contact: gila.kahila@mail.huji.ac.il

Prof. Gila Kahila Bar-Gal,

Director of National Natural History Collections

Head of Laboratory of Molecular Evolution, Koret School of Veterinary Medicine

The Robert H. Smith Faculty of Agriculture, Food and Environment The Hebrew University of Jerusalem, Israel

Gila Kahila <gila.kahila@mail.huji.ac.il>

Israel InferenceFromGenetics

The Greenbaum and Gokhman labs are looking for a MSc/PhD student interested

Can we predict the phenotypes of organisms by looking at their genomes? How will this be possible for complex phenotypes? An exciting opportunity for a MSc/PhD/postdoc project is available to investigate inference of traits directly from genetic information.

The project is a collaboration between the Greenbaum lab at the Hebrew University and the Gokhman lab at the WeizmannInstitute in Israel. Background in programming, mathematics, physics or computational modeling is required, and background in genetics/evolutionary biology is an advantage.

For additional information about the labs:

www.greenbaumlab.com www.gokhmanlab.com

For details, please contact Gili Greenbaum (gil.g@mail.huji.ac.il) or David Gokhman

(david.gokhman@weizmann.ac.il).

David Gokhman <davidgokhman@gmail.com>

JagiellonianU EvolutionEndothermy

Graduate position

PhD in Avian Oxidative Stress Biology A fully funded PhD 4-year position is available in the research team of Ulf Bauchinger at the Institute of Environmental Sciences, Jagiellonian University, Cracow, Poland (<https://eko.uj.edu.pl/zespoly-badawcze/badania>).

Project in brief:

As endotherms, mammals and birds have evolved the capacity to thermoregulate, an evolutionary achievement with profound impact on biology and ecology. Endothermy, however, does not necessarily entail a constant body temperature throughout a day, a year or a life time. Instead, many mammals are known to hibernate seasonally or enter torpor, reducing their body temperature by a few $\hat{\text{A}}^{\circ}\text{C}$ to several tens of $\hat{\text{A}}^{\circ}\text{C}$ below the normothermic level. Birds are known to also become torpid or and reduce body temperature during the night by rather a few $\hat{\text{A}}^{\circ}\text{C}$ with some exceptions of up to two tens of $\hat{\text{A}}^{\circ}\text{C}$. These on first sight small temperature drops may, however, have profound effects on enzymatic activity. The rate of biochemical reactions in general, and enzymatic reactions in particular are highly temperature dependent, which also applies to enzymes that act as antioxidants against free radicals. They protect against the negative effects of oxidative stress through free radical scavenging and if this protective enzymatic action is reduced in its rate, free radicals may remain unchecked, which may lead to oxidative damage of biomolecules. Such oxidative damage risks functional integrity of biomolecules and is currently one of the most frequently forwarded driver of aging. This research is designed to understand how regulation of body temperature may be hampered by increasing age and how this impaired thermoregulatory capability may lead to increased oxidative stress when animals grow old.

While it is well established for mammals, including us humans, that body temperature and the capacity to thermoregulate declines with increasing age, such data are virtually absent for birds, and in addition were never linked to oxidative stress. Our research project will provide thorough understanding how age in the context of

senescence influences thermoregulation in birds. The second goal of our research is then to relate the thermogenic capacity of birds of different age to oxidative stress to test the hypothesis that body temperature is related to the rate of oxidative damage. The starting date is ideally October 2021. Review of applications will begin on September 3, 2021 until the position is filled.

We are seeking a highly motivated PhD student with a MSc in life science (biology, ecology, evolution, zoology or related), an interest in animal experimental biology, avian physiology and animal metabolism for a NCN funded project “The effect of aging on body temperature dependent oxidative stress: the burden of heterothermy”. If you enjoy critical thinking, creativity, a high motivation in learning new methods, and have a good level of spoken and written English, then please apply by sending (1) a letter of motivation, (2) your CV with publication list, and (3) the contact details of at least two references in a single pdf e-mail (ulf.bauchinger@uj.edu.pl).

Students must be accepted as PhD student at Institute of Environmental Sciences, UJ (please see details for application process at https://irk.uj.edu.pl/en-gb/offer/-SD_PC_21/programme/n.scis.przy_phd.biol.sd_PC/-?from=org-unit:UJ.SDSP For further information please contact Ulf Bauchinger (ulf.bauchinger@uj.edu.pl).

Ulf Bauchinger <ulf.bauchinger@uri.edu>

JagiellonianU PredatoryBehaviorEvolution

Four-year PhD position at the Institute of Environmental Sciences, Jagiellonian University (Poland)

We are looking for a highly motivated candidate to join the Evolutionary Physiology Team of Dr. Paweł Koteja. The successful candidate will work in a project of Edyta Sadowska “Mechanisms determining predatory behavior: insights from an experimental evolution on bank vole”.

Conditions of employment: a scholarship for 48 months of 5000 PLN / month (equivalent to mean gross income in Poland)

Requirements 1. MSc in life science (biology, zoology, neurology, evolution, or related). 2. Admission in the International PhD Biology programs at JU (effective on 1.10.2021; <https://science.phd.uj.edu.pl/> <[\[te.net/deref/https%3A%2F%2Fscience.phd.uj.edu.pl%2F>\]\(https://science.phd.uj.edu.pl/\)\).](https://www.researchga-</p>
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3. Good communication skills, good level of spoken and written English. 4. Previous experience in statistical analysis of biological data. 5. Research experience with animals (preferably rodents) and behavioral or neuro-physiological laboratory. 6. Achievements such as publications or conference presentations are considered advantageous.

Description of project One of the main challenges in biology is to understand the evolution of complex adaptations that allow realization of the astonishing variety of “lifestyles.” Predator-prey interactions are important components in ecological communities, where under the pressure of natural selection, predators have evolved a variety of behavioral, morphological and/or physiological adaptations for detecting, catching, killing, and digesting prey. The examples include the wolf with its cooperate hunting skills, the cheetah - the world’s fastest land animal, the golden eagle with excellent eyesight that allows to spot even a small prey from the great height, or the grasshopper mouse *Onychomys*, hunting on cotton rats that are three times their weight. The predatory behavior is important not only from the ecological and evolutionary, but also from biomedical perspective. It is surprising that our knowledge concerning biological mechanism determining the predatory aggression is very limited, especially in comparison with that concerning conspecific-directed aggressive behavior.

The main question to be addressed in the project: Characterization of details of the predatory behavior to learn whether the selection increased only the propensity to attack, or also the hunting skills. Is selection for predatory behavior caused changes in conspecific-directed aggression? Assessing the contribution of “nature - nurture” effects on the behavioral differences between the predatory and control lines. Uncovering the mechanisms underlying the differences due to selection for predatory behavior, we will investigate hormones, neurotransmitters and brain activity activated by recent experience with crickets. We will use our unique experimental evolution model system: lines of a rodent, the bank vole, selected for predatory behavior. The biochemical and neurological methods will be used to uncover the mechanisms underlying the differences due to selection for predatory behaviour. We will apply a cross-fostering experiment in which newborn voles will be exchanged between mothers from the selected and control lines. This will allow to test whether rearing by a predatory mother increases predatory propensity of an individual independently of its genetic background. Samples of tissues will be preserved for follow-up project focused on for investigation of the molecular background (gene expression level). For further information please contact

Edyta Sadowska (edyta.sadowska@uj.edu.pl)

Preliminary enquiry: email to the principal investigator - Edyta Sadowska (edyta.sadowska@uj.edu.pl). Please apply by sending (1) a letter of motivation, (2) your CV with publication list, and (3) at least one reference (4) signed information on data (<http://www.heddlelab.org/images/Personal%20data%20NCN.pdf>). The application should be sent by email (edyta.sadowska@uj.edu.pl) by 03.09.2021 (the term will be automatically prolonged if needed).

Edyta Sadowska, PhD Institute of Environmental Sciences Jagiellonian University 7 Gronostajowa Street, 30-387 Kraków Poland office phone: +48 12 664 5210 mobile phone: +48 509 49 89 94 fax: +48 12 664 6912

Edyta Sadowska <edyta.sadowska@uj.edu.pl>

Liverpool Hippopotamus Evolution

PhD project title: Molecular phylogeny of extinct and extant hippopotamus species

Project outline: The family Hippopotamidae is an intriguing mammal group; extant hippo are more closely related to whales and dolphins (clade Whippomorpha) than to the many ruminants that occupy similar niches - and habitat in Africa. Over the Pliocene-Pleistocene and into the Holocene - there were over 30 species within the family. Many became extinct during the Pleistocene - but some persisted through the Holocene until very recently. At present there are two extant hippos; the common hippo and the pygmy hippo. We propose the application of ancient DNA techniques to determine historical relationships within the Family Hippopotamidae

A PhD position is available for this research.

Location: Liverpool John Moores University (LJMU) in the United Kingdom will administer this collaborative project, in collaboration with Aberdeen University. The Project will principally be based in the Ancient DNA Lab at LJMU (Prof Richard Brown and Dr Lochran Traill) and Aberdeen (Dr Linus Girdland Flink). There will be an expectation to travel to Africa including Madagascar and also the Mediterranean region. Dr Traill has affiliation with Witwatersrand University in South Africa to facilitate work in Southern Africa.

Duration: 3 years

Eligibility: British Nationals only, or EU Nationals that have permanent residence in the UK.

Financial support: this is for British nationals. Scholarships are available for high achieving students through the LJMU Vice Chancellor Award Scheme with a deadline at 20th September. See details here: <https://www.ljmu.ac.uk/research/phd-scholarships> Scholarships are highly competitive and candidates are expected to have a First Class Honours degree (or a MSc) and at least one research publication. The scholarship will cover fees, living costs and travel expenses for 3 years.

How to Apply: Please contact in the first instance Dr Lochran Traill (l.w.traill_at_ljmu.ac.uk) or Prof Richard Brown (r.p.brown_at_ljmu.ac.uk). Include a one page CV.

"Traill, Lochran" <L.W.Traill@ljmu.ac.uk>

Montpellier 2 Plasticity Phenology

We are looking for a PhD student (3 years funding) in co direction between Celine Teplitsky (Montpellier, France) and Pierre-Yves Henry (Brunoy, France). Plasticity of phenology is considered as one of the major mechanisms through which organisms can adapt to climate change. However, we still know little about the limits to the expression of plasticity in new environments such as exceptionally warm springs or urban environments.

This PhD project will tackle this question by investigating whether we can already see limits to plasticity in exceptionally warm years, and/or in urban environments (where the nutrient and heat constraints are magnified). The project will be run at a large spatial scale, based on human landscape use. If such limits of plasticity exist (1) can they be predicted based on some species / populations / habitats features, and (2) what are the constraints to the evolution of plasticity? This last question will be tackled by investigating the within population genetic variance for plasticity and the extent to which it varies among populations, but also across species, trying to evaluate more long term constraints on plasticity evolution.

This project will be based on statistical analyses of long term data obtained from monitoring of wild bird populations, mainly blue and great tits but an interspecific approach can be developed on several passerines birds based on citizen science monitoring

Work conditions: The PhD will be implemented at the CEFE (Centre d'Ecologie Fonctionnelle et Evolutive, Montpellier, France) and at MECADEV (Mécanismes

adaptatifs & Evolution, MNHN, Brunoy, France).

Appointment. The appointment is for a period of 3 years (period: November 2021 - October 2024) from a funding from the 'Climate and Biodiversity initiative' of BNP Paribas. The salary is 1700€ after taxes and includes social security benefits. The candidate commits to complete a PhD dissertation, at least two publications in high-profile international journals before PhD defence, and communication(s) at international congress

Requirements: Candidates are expected to have a MSc degree (Master 2 in France) in evolutionary biology or ecology with a strong statistical background. The PhD student will be expected to contribute to data collection during the field season. Field experience is a plus but not mandatory if there is a will to learn.

Applications. Written applications (in French or English), including a cover letter, a complete CV, marks obtained at university and names and contacts of at least two referees, should be submitted online on the CNRS portal (<https://emploi.cnrs.fr/Offres/Doctorant/UMR5175-CELTEP-003/Default.aspx?lang=EN>). Incomplete applications will not be considered. A preliminary selection will be made based on application files. Selected candidates will be interviewed early October.

Do not hesitate to contact us for further details (celine.teplitsky@cefe.cnrs.fr; pierre-yves.henry@mnhn.fr).

Closing date for application: September 15th 2021 (12 p.m.)

We are looking for a PhD student (3 years funding) in co-supervision between Celine Teplitsky (Montpellier, France) and Erik Matthysen (Antwerp, Belgium). Plasticity of phenology is considered as one of the major mechanisms through which organisms can adapt to climate change. However, we still know little about the ecological factors that will constrain or facilitate this adaptation.

This PhD project is organized around two main themes (1) Evaluate how environmental conditions affect the expression of plasticity. Plasticity is always a response to the environment, but this plasticity (i.e. how the organism responds to the environment) can itself change with the environment, due to simultaneous variation in multiple factors or environments experienced earlier in the organisms' life; and (2) Evaluate how adaptive these responses are to multiple environmental factors. Recent modelling approaches allow estimating optimum phenotypes in the wild and assessing the adaptive value of expressed reaction norms.

This project will be based on statistical analyses of long term data obtained from monitoring of wild bird populations, mainly blue and great tits but an interspecific approach can be developed on several passerines birds based on citizen science monitoring as well.

Work conditions: The PhD will be implemented at the CEFE (Centre d'Ecologie Fonctionnelle et Evolutive, Montpellier, France) and at the Evolutionary Ecology Research Group (Antwerp, Belgium).

Appointment. The appointment is for a period of 3 years (period: November 2021 - October 2024) from a funding from the 'Climate and Biodiversity initiative' of BNP Paribas. The net salary is about 1700€ after taxes and includes social security benefits. The candidate commits to

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TexasTech 2 AntGenomics Peromyscus

The Manthey research group in the Department of Biological Sciences at Texas Tech University is recruiting a highly motivated individual for graduate studies (PhD) to work on questions related to the ecology and evolution of carpenter ants (Genus *Camponotus*) and their endosymbionts (*Blochmannia*) in North America.

Our group has collected whole-genome sequencing data from samples of several *Camponotus* species and their endosymbionts from hundreds of localities across North America to date (see: <https://mantheymlab.org/-fieldwork/>). We are looking for someone to join our research group to both work on the data sampled so far and expand the project in scope based on individual interests. Our current research themes with this study system include: (1) coevolution of ants and their symbionts, (2) landscape genomics of both ants and symbionts, and (3) genome evolution. Applicants with interests and/or experience in genomics and/or entomology are encouraged to apply.

The position is funded for 5 years (PhD applicants) through a combination of research and teaching assistantships in the Department of Biological Sciences at Texas Tech University.

Interested individuals should email a CV/resume to Dr. Joseph Manthey (jdmanthey@gmail.com or joseph.manthey@ttu.edu), as well as a statement of how your interests and the funded conservation genomics project complement each other. This statement will be used as a writing sample as well as an assessment of applicants' potential fit to the position.

The Department of Biological Sciences has a strong and dynamic group of scientists with a focus in ecology and evolutionary biology. The department has strengths in multiple areas of genomics, bioinformatics, and specialized disciplines of ecology and evolutionary biology. The departmental website can be found here: <http://www.depts.ttu.edu/biology/> ~Deadline for applications~ Our department has year-long open admissions but has deadlines to be considered for scholarships and fellowships. For Fall 2022, this deadline is early January 2022. Please find all application details here: <http://www.depts.ttu.edu/biology/academics/-graduate/prospective-students/> All qualified applicants are encouraged to contact me and apply. While academic scores have a role in admissions, motivation and research experience are highly valued. Texas Tech University is an Equal Opportunity Employer, and we welcome applications from all qualified persons and will ensure that all applicants are treated fairly, equally, and respectfully.

Joseph D. Manthey, Ph.D. Assistant Professor, Biological Sciences Texas Tech University Email: jdmanthey@gmail.com | joseph.manthey@ttu.edu <https://-mantheylab.org/> —

The Manthey research group in the Department of Biological Sciences at Texas Tech University is recruiting a highly motivated individual for graduate studies (PhD or MS) to work on a recently funded project in conservation genomics to begin Fall 2022.

This project is funded through Texas Parks and Wildlife to study the evolutionary history, demography, and distinctiveness of the mouse *Peromyscus truei comanche*, and is in collaboration with Drs. Caleb Phillips and Robert Bradley in the Department of Biological Sciences. We expect the project will include field work, bioinformatics of whole-genome sequencing data, and morphometric analyses of museum specimens. There will be opportunities for expanding the project in scope, particularly for PhD applicants. Applicants with interests and/or experience in genomics and/or mammalogy are encouraged to apply.

The position is fully funded for 2.5 years (MS applicants) or 5 years (PhD applicants) through a combination of research and teaching assistantships in the Department of Biological Sciences at Texas Tech University.

Interested individuals should email a CV/resume to Dr. Joseph Manthey (jdmanthey@gmail.com or joseph.manthey@ttu.edu), as well as a statement of how your interests and the funded conservation genomics project complement each other. This statement will be used as a writing sample as well as an assessment of applicants' potential fit to the position.

The Department of Biological Sciences has a strong and dynamic group of scientists with a focus in ecology and evolutionary biology. The department has strengths in multiple areas of genomics, bioinformatics, and specialized disciplines of ecology and evolutionary biology. The departmental website can be found here: <http://www.depts.ttu.edu/biology/> ~Deadline for applications~ Our department has year-long open admissions but has deadlines to be considered for scholarships and fellowships. For

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UArkansas EvolutionaryEcol

Graduate assistantships are available for Ph.D. students in the Siepielski Lab (<https://siepielski.wordpress.com>) in the Department of Biological Sciences and the Ecology, Evolution, and Organismal Biology group (<https://-eeob.uark.edu>) at the University of Arkansas (<https://-fulbright.uark.edu/departments/biology/>).

Our lab focuses on questions at the intersection of evolutionary biology and ecology and. Current projects include: the contribution of evolution in shaping the demographic processes regulating populations and structuring species coexistence, how species evolve in response to multiple-species interactions such as competition, predation, and parasitism, how extreme ecological events drive eco-evolutionary change, and determining the major features characterizing natural selection in the wild. To explore these topics, we use a combination of observational, experimental, meta-analytical, and theoretical approaches. Most of our work is with damselflies, a voracious and awesome predatory insect.

Graduate research fellowships (\$30,000 - 40,000, plus health insurance and tuition waiver) are also available for highly competitive candidates. Please

see <https://graduate-and-international.uark.edu/-graduate/costs-and-funding/doctoral-fellowships.php> for additional information on fellowship funding opportunities.

Prospective students should check out our lab website <https://asiepielski.wordpress.com> for additional information. If interested in considering joining our lab group, please contact me via email (amsiepie@uark.edu). In your email, please include the following: 1) a brief description of your overall research interests, career goals, and why you think our lab would be a good fit for you, and 2) your CV. If you have any questions, please ask.

Ideal candidates will be hard-working, highly motivated, and excited about studying questions at the interface of ecology and evolutionary biology. Prior coursework in ecology, evolutionary biology, and statistics, a strong interest in mentoring undergraduates and participating in outreach, and relevant research experiences (including field biology) are desirable, but not required.

Please note that the deadline for Fall 2021 admission into our program is January 15, 2021. All materials should be submitted well before then.

The University of Arkansas, Fayetteville, AR, is a Tier I research university located in the beautiful Ozark Mountains. The faculty and graduate students at UARK are highly interactive and include an internationally known group of evolutionary biologists and ecologists. We are located in an ideal setting for field-based projects in aquatic systems (AR has more than 2,300 lakes and thousands of smaller ponds, and equally impressive numbers of rivers, streams and creeks). Fayetteville, located in northwest Arkansas, offers a high quality of living at a low cost, an excellent climate, and is a large enough city to offer diverse activities and amenities. Rock climbing, hiking, kayaking, canoeing, and especially mountain biking (tons of amazing mountain bike trails, and more every year!) opportunities are in close proximity.

Adam Michael Siepielski <amsiepie@uark.edu>

UPotsdam MammalPalaeogenomics

The Evolutionary Adaptive Genomics Group of Prof. Dr. Michael Hofreiter at the University of Potsdam in collaboration with the Leibniz-Research Institute for Archaeology is offering a PhD position for 2.5 years with the possibility of extension. The PhD will be within the project AlterEco funded by the Leibniz Society and

aiming at palaeogenomic studies of a number of ungulate species from the site of Neumark Nord, which has been shown to yield specimens with excellent DNA preservation, despite its Eemian age. In this project, the successful applicant will trace the population dynamics of elephants, fallow deer, red deer and aurochs, which are present during most of the Eemian substages. To this end, it is planned to both target the mitochondrial genome using hybridization capture and shotgun sequence the best-preserved samples for nuclear genomic data. The obtained data will be analyzed using state-of-the-art population genetic approaches, tailored for time-structured data.

Applicants are expected to have a background in evolutionary genetics and/or molecular biology as well as some basic knowledge in bioinformatics. Expertise in analyzing NGS-data is of advantage but not required. Please send your application documents to michael.hofreiter@uni-potsdam.de. Deadline for applications is 17th September 2021. Prof. Dr. Michael Hofreiter Professor for Evolutionary Adaptive Genomics University of Potsdam

mark.scherz@gmail.com

UTasmania SexDeterminationEvolution

PhD position: Sex chromosome evolution in a viviparous reptile with genotypic and temperature-dependent sex determination

Project theme:

Sex-determination controls the most significant variation within animals- the division into males and females. While the different systems of sex-determination involving genetic or environmental control are relatively well understood, transitions between these systems remain enigmatic in evolutionary biology. This project aims to address this gap by revealing the molecular and cytogenetic changes required to transition between modes, using one of only two known lizard species exhibiting both genetic and temperature control of sex. This knowledge will have important implications for species conservation, facilitating predictions of highly biased sex ratios under climate change, plus potential commercial applications for species where the production of one sex is favoured.

A PhD position is available to contribute to this research. This student will conduct advanced cytogenetic research

on species of Australian lizards to help understand the genomic changes accompanying transitions between genetic and temperature-dependent sex determination.

The University of Tasmania administers this collaborative research project (funded by the Australian Research Council Discovery Project grant, ARC DP) between University of Tasmania (Assoc Profs Chris Burridge and Erik Wapstra) and the University of Canberra (Prof Tariq Ezaz). This PhD project will be based at the cytogenetics laboratory of Prof Tariq Ezaz (University of Canberra). However, the successful PhD candidate will spend significant time at the University of Tasmania to perform fieldwork and some molecular genetic analysis. The Cytogenetic techniques to be employed include C-banding, Comparative Genomic Hybridisation (CGH), chromosome microdissection, fluorescence in situ hybridisation (FISH), BAC library screening, and Next-Generation Sequencing (NGS). Bioinformatics such as comparative mapping will be also be conducted.

The Ideal Candidate

The ideal candidate will possess experience in molecular cytogenetics (e.g. cell culture, chromosome preparation, fluorescence in situ hybridisation), and genomics (e.g. genomic data mining, experience and familiarisation with sequence analyses and NGS technology). Knowledge of chromosome biology and sex determination is desirable. The candidate will be self-motivated and well-organised, with a demonstrated capacity to learn and apply the broad skill set necessary for the successful completion of a research project. The successful candidate will be able to work alongside a wide variety of people in multi-function and multicultural laboratories. The successful candidate(s) will also have a strong commitment to excellence in research and scholarship.

Scholarships

Financial support for domestic and international students is expected to be available for a high achieving student through University of Canberra scholarship round (applications close 30 September 2020). These scholarships are highly competitive. To be competitive, candidates should have a first-class honours degree or equivalent in a relevant area and other evidence of research potential (such as publications and relevant work experience). The scholarship and project are for three years. More information on the scholarships and admission process can be found at <http://www.canberra.edu.au/future-students/scholarships-and-financial-support/scholarships-and-fees> Eligibility

The University of Canberra scholarships are open to all nationalities. However, overseas candidates for whom English is not a first language must secure an IELTS

score of 6.5 and have no individual score falling below 6.0 to satisfy our English language requirements. More information can be found here <http://www.canberra.edu.au/future-students/research-students/english-proficiency> How to Apply

Interested applicants should submit a CV, a copy of their academic transcript, a sample of your written scientific work, and a cover letter outlining their research interests to tariq.ezaz@canberra.edu.au and or, chris.burridge@utas.edu.au

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Christopher Burridge <chris.burridge@utas.edu.au>

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>

Wageningen Plant Virus Bioinformatics

The Evolutionary (Meta-)genomics group in the Bioinformatics Group at Wageningen University invites applications for a bioinformatics PhD student in 'Virus diversity and evolution in natural plant ecosystems'.

You might share our view that wild plant communities might act as viral reservoirs that are also connected to agricultural plants. Since viruses can spill over from natural to agricultural systems, it is highly relevant to characterize virus diversity in wild plants. Plant virus genomes are highly diverse and evolve rapidly. To know which role plant viruses play in shaping natural plant communities, we must characterize their biodiversity and evolution.

You might be familiar with the phenomenon that plant virus infections are often asymptomatic, i.e., they do not cause overt disease, and can even be beneficial for the host. Recently, plant virus research expanded from the study of individual virus-host systems into characterizing global diversity using metagenomics, i.e., sequencing the genetic content of environmental samples without the need for prior virus isolation. Metagenomics led to the surprising observation that virus infections are

ubiquitous, that there is a high incidence of mixed infection, and that most plant viruses identified in crops also occur in wild plants. There is growing evidence that viruses can impact plant ecosystems, which calls for a reappraisal of the role of viruses in natural ecosystems and accentuates the need to understand virus genomes and their function and evolution.

The aim of this project is to develop bioinformatics methods to analyze plant virus metagenome data that has been sampled from wild plants in the Netherlands. This (and potentially your) project will contribute to understanding plant virus diversity and evolution in natural Dutch ecosystems. You will contribute to developing bioinformatics methods to discover and reconstruct virus genomes from high-throughput plant virus sequencing data and to analyze ecological and evolutionary properties of these viruses. To this end, we aim to analyze the effect of host range and mixed infections on intra-host diversity and estimate how recombination and selection impact virus genome evolution.

Beyond the scientific and potentially application merits, you will build a wide network for your future career both within and outside Wageningen University.

The research is embedded within the chair group of Bioinformatics at Wageningen University which is led by Prof. Dick de Ridder (<https://www.bioinformatics.nl/>). You will be supervised by Dr. Anne Kupczok (<https://-annecmg.github.io/>). The research will be carried out in close collaboration with Dr. Mark Zwart at the Netherlands Institute of Ecology (NIOO-KNAW) (<https://-nioo.knaw.nl/nl/employees/mark-zwart/>). The position is for four years and funded by the graduate school Experimental Plant Sciences (<https://www.graduateschool-eps.info/>).

We ask - a successfully completed MSc degree in bioinformatics or a related field; - excellent background in high-throughput sequencing analysis and comparative genomics; - affinity with ecology, evolution, and population genomics; - interest in close collaborations with experimental biologists and ability to work effectively as a team member and to carry out individual research; - very good level of oral and written English.

Please find all details and instructions how to apply here: <https://www.wur.nl/en/vacancy/PhD-position-Virus-diversity-and-evolution-in-natural-plant-ecosystems.htm> For enquiries regarding the position and research topic, please contact Anne Kupczok: anne.kupczok@wur.nl

Dr. Anne Kupczok Assistant Professor Bioinformatics, Department of Plant Sciences, Wageningen University
 "anne.kupczok@wur.nl" <anne.kupczok@wur.nl>

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Beijing PDF or Prof PopGenetics

Post-doctoral or assistant or associate prof. position available: Ancient Genomics

The Fu Molecular Paleontology Lab has post-doctoral, assistant professor, and associate professor positions available. If you have a background in statistical population genetics and/or data science, this might be for you!

Our ancient DNA laboratory pioneered large-scale studies of human population history requiring analysis of large numbers of samples simultaneously. We use ancient DNA to understand early modern human migration routes; to explore how Paleolithic, Neolithic, and more recent humans expanded across Asia; and to study gene flow between modern and archaic humans. In addition, we are studying the genetic diversity of past mammals, including pandas and gray wolves, as well as the evolution of ancient pathogens in early East Asian populations.

We are looking for a highly motivated post-doctoral researcher with appropriate experience and interests to work on analysis of these data. Potential projects will likely investigate the biological history of humans using ancient and present-day genomic data.

The successful candidate will have analytical and computer skills that allow exploration of large and complex genetic data sets, preferably with previous experience in a world class ancient DNA lab. Research is conducted in English. The position will be supervised by Dr. Qiaomei Fu.

Applicants are requested to send their CV, a short statement of their research interests, and the names and contact information of two references to Dr. Qiaomei Fu at fuqiaomei@ivpp.ac.cn. Strong candidates will be expected to participate in a Skype or on-site interview. The position will be open until filled. The position is for two years with a possibility of renewal, and salary will be internationally competitive. Please address any questions to Dr. Fu.

The Fu Molecular Paleontology Lab, consisting of 28 members (including group leaders, postdoctoral scholars, doctoral and master's students and technicians), is a cutting edge international ancient DNA laboratory.

It is based at the Institute of Vertebrate Paleontology and Paleoanthropology, Chinese Academy of Sciences, near the center of Beijing, China, with easy access to public transportation. The Fu lab focuses primarily on ancient genomic analysis, but the institute's research environment is diverse, with a vibrant community of researchers studying anthropology, archaeology and paleontology. Beijing is a thriving fast-growing city with a robust international community.

Dr. Fu's work has been published in Nature, Science, Cell, PNAS, Current Biology, AJHG, amongst others, with one awarded the "top 2014 annual ten scientific events" in Nature. She was selected as one of the "Ten Chinese Science Stars" in 2016 by Nature, has received the "Distinguished Young Scientist" award from the Chinese Academy of Sciences, is part of China's Thousand Youth Talents program, is a HHMI International Scientist, and is one of China's Top Ten Innovative Pioneers of Science and Technology. For more information, her Research Gate site can be accessed here: https://www.researchgate.net/profile/Qiaomei_Fu. Yichen Liu <yichen.liu@ivpp.ac.cn>

Beijing Prof PDF PhD Mosquitoe Evolution

Assistant prof., Post-doctoral, and PhD candidate positions available:

The Host Microbiota Omics and Application Group at Institute of Zoology of Chinese Academy of Sciences, Beijing, China (<http://www.wanglab.com.cn>) has post-doctoral, assistant professor, and PhD candidate positions available. If you have a background in Entomology; Microbiology; Genomics; Biological Engineering, this might be for you!

Mosquitoes are vectors of many human pathogens including dengue virus, Zika virus, chikungunya virus, yellow fever virus, West Nile virus, Mayaro virus, and malaria. Roughly half of the world's population is at risk of these diseases, with the highest burden falling on socially and economically disadvantaged populations. Dengue incidence has increased over 30-fold in the past 50 years, currently resulting in over 400 million new infections per year. The research direction mainly includes three aspects: (1) New mosquito control technologies based on microbiome and gene editing/drive. (2) Microbial function mining. (3) Microbial structure regulation mechanisms. Main research content around microbial

and host interaction, using multi-omics, gene editing, microbial separation screening, aseptic system technology, reveals the microbial-driven host resistance, theoretical mechanism of microbial and host collaborative differentiation. Please visit our research websites for more details on our research: <http://www.wanglab.com.cn>

1. Assistant professor Under the guidance of the PI, participate in the research in the following two directions according to the personal interest: (1) Mosquito control using microbiome and genetic technologies. (2) Host-microbiota interactions using wasp/mosquito as system. Key responsibilities include but are not limited to the following: Perform laboratory work, undertake the scientific research task independently and carry out innovative research, participate in data analysis and interpretation of the results, write publications with other members of the team, apply fundings.

Required Qualifications: (1) With postdoc research experience, engaged in bioinformatics, molecular biology, microbiology, evolutionary biology, synthetic biology, and other related studies during the doctoral or postdoc period. (2) During the postdoc published at least one SCI article of JCR TOP 15% or IF ≥ 5 . (3) Proficient in transcriptional groups, genomic genome, high-throughput sequencing, gene cloning and other related technologies. (4) Priority will be given to candidates for one or several related professional background in functional omics or mosquito related background The age is generally less than 35 at the time of application.

2. Postdoc Your primary role will be to under the guidance of the PI, mainly engaged in the research of Microbial structure regulation mechanisms, using metagenomics, metabolomics, gene editing, and aseptic system. we will focus on the molecular and physiological mechanisms how host regulates microbiota structure, providing theoretical basis for the establishment of microbial technology for pest control. Undertake the scientific research task independently and apply for postdoc or other scientific research funds. Applicants are encouraged to consider applying for funding opportunities
Required Qualifications: (1) Background in bioinformatics, genetics, microbiology, evolutionary biology and other related studies, etc. (2) Obtained a doctoral degree in relevant major in recent three years or must meet the graduation requirements at the time of application, and has published at least one SCI paper as the first author. (3) Proficient in gene knockout, Real-time PCR, Crispr, gene cloning, next-generation microbiome 16s analysis, and other related technologies.

3. PhD candidate Mainly engaged in scientific research in mosquito prevention and control, developing new economic, sustainable, and environment-friendly mosquito control technologies based on microbiome and gene

editing. The ideal candidate will possess experience in genomics and bioinformatics. Candidates have the demonstrated capacity to learn and apply the broad skill set necessary for the successful completion of a research project. The successful candidate will also have a strong commitment to excellence in research and scholarship. According to the institute and relevant national regulations, above positions provide competitive compensation and benefits. If you are interested in applying for this opportunity, please email materials to ghwang@ioz.ac.cn. To ensure full consideration, please submit the following materials: (1) a current curriculum vitae; (2) statement of research interests; (3) academic background and degree certificate; (4) contact information for two references (name, unit, and email). Review of applications will

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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>

CaliforniaStateU Fresno Microbiology

The Department of Biology in the College of Science and Mathematics at California State University, Fresno seeks applicants for a tenure-track, academic year position as an Assistant Professor in Microbiology. The successful candidate will be broadly trained with expertise in microbiology. All candidates whose research program uses a microorganism (archaea, bacteria, eukaryotic microorganisms) as a model will be considered. Applicants who study molecular/cellular/biochemical mechanisms underlying microbial physiology, disease, or biotechnology are encouraged to apply. Specific teaching assignments will depend on the candidate's expertise and departmental needs, which may include general microbiology, microbial physiology, medical microbiology, microbial genetics, microbial ecology, and/or graduate courses in the candidate's area of expertise. The successful candidate is expected to develop a research program that involves both undergraduate and graduate masters students, and pursue external funding. Faculty members are also expected to engage in service activities at all levels of the university and provide academic and professional advice to students.

Required Education: An earned doctorate (Ph.D.) in Microbiology, Biology with a specialization in Microbiology, or a closely-related discipline from an accredited institution (or equivalent) is required.

Required Experience:

1. Ability to demonstrate a commitment to working effectively with faculty, staff, and students from diverse ethnic, cultural, and socioeconomic backgrounds,
2. Evidence of publications in scholarly journals,
3. Demonstration of grant writing or scholarly activity at the university level,
4. Evidence of teaching preparedness.

Preferred Qualifications:

1. Experience teaching and working with undergraduate and graduate students,
2. Postdoctoral research or experience,
3. A publication record that is commensurate with the candidate's experience,
4. Success obtaining extramural grants and contracts for research.

Application Procedures: Review of applications will begin on 10/1/2021, and will continue until the position is filled. To ensure consideration, apply by this date. To apply, applicants must complete an online application at <http://jobs.csufresno.edu> and attach the following:

1. A cover letter specifically addressing required experience and preferred qualifications,
2. A current curriculum vitae,
3. A statement of current and future research,
4. A statement of teaching philosophy,
5. A statement addressing your commitment to working with faculty, staff, and students from diverse ethnic, cultural, and socioeconomic backgrounds,
6. Names and contact information of five professional references.

Upon request, finalists will be required to submit:

1. Three current letters of recommendation
2. Official transcripts

For more information on the department and university, visit: <https://csucareers.calstate.edu/detail.aspx?pid=86325>. For inquiries, contact: Dr. Katherine Waselkov, Search Committee Chair, California State University, Fresno, Department of Biology, College of Science and Mathematics; email: kwaselkov@csufresno.edu.

Katherine Waselkov <kwaselkov@csufresno.edu>

Cheetah Conservation Namibia LabTech ConsGenetics

Genetics Laboratory Technician Cheetah Conservation Fund, Namibia

The Cheetah Conservation Fund (CCF), Namibia, is currently looking for a highly motivated individual to join its genetics laboratory staff in the position of Laboratory Technician.

The specific title and remuneration are dependent on the applicant's level of experience. The successful applicant should have a Master's degree in a relevant field of research or a minimum of 3 years of professional experience. The position is available immediately, with expected start date in or as close as possible to September 2021. Namibian residency is preferred. Applicants should send their CV, letter of motivation, and contact details of 3 references to genetics@cheetah.org.

The successful candidate should have a strong background in best laboratory practices in molecular biology/genetics, and have excellent organizational and communication skills. His/her main responsibilities will include ensuring accuracy of microsatellite genotypes produced in the laboratory and supervision of interns and students, ensuring that good laboratory practices and protocols are followed. Other responsibilities will be curation of databases, development of laboratory services, writing of permit applications and reports, and keeping the laboratory adequately stocked at all times. Prior experience in these particular tasks is not required; however, willingness to learn and attention to detail are essential, and prior experience with microsatellite genotyping (ideally di-nucleotides) would be appreciated. This position will also provide opportunities for direct participation in research projects as time permits.

The genetics laboratory is located at the CCF research centre, about 40 km east of Otjiwarongo, Namibia. Staff members live on CCF property and housing is provided. Further information regarding CCF and its mission to conserve cheetahs in the wild may be found at www.cheetah.org. Anne Schmidt-Ki $\frac{1}{2}$ ntzel, DMV, PhD

Assistant Director for Animal Health and Research Life Technologies Conservation Genetics Laboratory

Cheetah Conservation Fund (CCF) www.cheetah.org

Email: genetics@cheetah.org Tel (CCF general number): +264 67 306 225

genetics@cheetah.org

ClemsonU HumanGenetics

Job: 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), including the Department of Genetics and Biochemistry (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) and the Department of Biological Sciences (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 w864-889-0522 c919-604-6531

tmackay@clemson.edu

Trudy Frances Charlene MacKay
<tmackay@clemson.edu>

ColumbiaU EvolutionaryBiol EvolutionaryEcol

TITLE: ColumbiaU.EvolutionaryBiol.EvolutionaryEcol

The Department of Ecology, Evolution and Environmental Biology (E3B) at Columbia University invites applications for a tenure-track position at the Assistant Professor level. Applicants can use any combination of modern experimental, computational, or theoretical approaches to study fundamental questions in evolutionary biology or evolutionary ecology, or apply these approaches to societally-relevant challenges. Preference will be given to those who study non-model organisms in the lab or field. The successful candidate is expected to establish a vigorous, externally funded research program that complements and augments existing strengths within E3B, and to participate in undergraduate and graduate teaching.

E3B is an intellectually diverse and stimulating department consisting of a vibrant and close-knit community. It has strong links to other departments and disciplines at the University, including evolutionary biologists (evolutionatcolumbia.org), behavioral biologists (Center for Integrative Animal Behavior), neuroscientists (Zuckerman Mind Brain Behavior Institute), earth and environmental scientists (Lamont Doherty Earth Observatory, the Earth Institute, and other centers in the Climate School), and disease experts (Mailman School of Public Health). E3B also has close ties with New York partner institutions, including the New York Genome Center, the American Museum of Natural History, the New York Botanical Garden, the Wildlife Conservation Society, and the EcoHealthAlliance. These connections provide ample opportunities for interaction and collaboration.

Review of applications will begin October 1, 2021, and will continue until the position is filled.

LINK:<https://academic.careers.columbia.edu/#/-78039> Qualifications

Minimum Degree Required:Ph.D.

Minimum Qualifications:Strong research and publication record.

Preferred Qualifications:Training and experience in evo-

lutionary biology or evolutionary ecology.

Application Instructions

Please submit applications online in Interfolio. Include a cover letter, curriculum vitae, a statement of research interests that describes not only significant accomplishments but also a vision for the future of the field and the applicant's role in it, a teaching and mentoring statement, a statement describing your commitment to increasing diversity through research, teaching, and service, three PDFs of re-prints/pre-prints, and contact information for three reference letter writers.

Additional Information: Please note that you will not be able to submit your application without providing the names and email addresses of three people who will write your reference letters.

Equal Employment Opportunity Statement

Columbia University is an Equal Opportunity Employer / Disability / Veteran

Dustin R. Rubenstein-Professor Columbia University
Department of Ecology, Evolution and Environmental Biology
10th Floor Schermerhorn Extension, MC 5557 1200
Amsterdam Avenue New York, NY 10027 212-854-4881
- @DustRubenstein -<http://www.columbia.edu/~dr2497>
Dustin Reid Rubenstein <dr2497@columbia.edu>

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

DukeU LabManager PlantPopGenetics

Position Title: Associate in Research in Evolutionary Ecology
Deadline: Priority will be given to applications received before Monday August 23, 2021; Online applications open until Friday September 3, 2021

Job Description Overview: The Associate in Research

will serve as a lab manager and participate in field and laboratory research on genetic adaptation and population demography in a weedy plant. We are looking for an intellectually curious lab member who wants experience in research and involvement in the field of Evolutionary Ecology.

Work performed: Planning and executing experiments in the lab and field; plant care; DNA and RNA extraction, quantification, and troubleshooting; data organization, processing, and analysis, and presenting results of research; purchasing, recordkeeping, organizing lab protocols and safety, maintaining inventory; coordinating use of plant growth equipment and lab space among users; some supervision and training of other lab personnel.

Required skills and experience: BS in Biology or an equivalent field; research experience in the field of ecology, genetics, evolutionary biology or similar field; experience with plant care; proficiency with molecular biology procedures such as DNA and RNA extraction and quantification, PCR; experience with fieldwork; excellent organizational and troubleshooting skills; familiarity with data manipulation and analysis a plus.

Required Materials: cover letter, CV, names and contact information of two or more references

YOU MUST APPLY ONLINE AT THE DUKE EMPLOYMENT WEBSITE AT: <https://academicjobsonline.org/ajo/jobs/19096>
 Kathleen Donohue: k.donohue@duke.edu

Eawag Switzerland Adaptation Freshwater Ecosystems

Eawag, the Swiss Federal Institute of Aquatic Science and Technology, is an internationally networked aquatic research institute within the ETH Domain (Swiss Federal Institutes of Technology). Eawag conducts research, education and expert consulting to achieve the dual goals of meeting direct human needs for water and maintaining the function and integrity of aquatic ecosystems.

The Department of Aquatic Ecology has a vacancy for a

Group Leader Position in Adaptation to Environmental Change in Freshwater Ecosystems (tenure track)

Topic: Environmental change is occurring at rates and along dimensions that are unprecedented in human history. The multifarious aspects of environmental change

can act interactively, and should be studied together. We are looking for someone who will study the ecological and evolutionary effects of these drivers on freshwater ecosystems at multiple levels of biological organization. These may include populations, species interactions, communities and/or food web structures, and/or biodiversity and ecosystem-level functions. The successful candidate will establish an innovative, independent research program to advance the fundamental understanding of adaptation to environmental change in freshwater ecosystems, as well as its relevance for society and implementation in practice.

To establish a group with a high international visibility, the candidate should have: - a PhD degree in ecology, evolution or environmental sciences or a related field - a successful track record of research on environmental change in aquatic ecosystems, preferably with a focus on population, community, food web or ecosystem ecology - experience with experimental approaches and a strong quantitative and/or modeling background - willingness to collaborating with multidisciplinary research teams at the institution level and externally with national and international partners - commitment to communicating relevant research to policy-makers and stakeholders

The position will be based in the Department of Aquatic Ecology at Eawag in Dübendorf/Zürich (<https://www.eawag.ch/en/departement/eco/>). Involvement in teaching and training of students is expected at either ETH Zurich or the University of Zurich. Eawag offers an exciting and stimulating research environment with excellent opportunities for collaborative research. By taking advantage of Eawag's environment and its world-class infrastructure and facilities, the successful candidate is expected to acquire third party funding, build up a research group and contribute to Eawag's mandate in teaching and expert consulting. Excellent communication in English and team work skills are essential.

Eawag is a modern employer and offers an excellent working environment where staff can contribute their strengths, experience and ways of thinking. We promote cultural and gender equality and are committed to staff diversity and inclusion. The compatibility of career and family is of central importance to us. For more information about Eawag and our work conditions please consult www.eawag.ch and www.eawag.ch/en/aboutus-working/employment. Applications must be submitted by September 5, 2021 and should include a brief application letter describing your interests and their relevance to this position, research (max. 2 pages) and teaching (max. 1 page) statements, also highlighting your contributions to diversity, a CV with list of publications, and the contact information for three references.

For further information, please contact Prof. Dr. Christoph Vorburger (Christoph.Vorburger@eawag.ch).

We look forward to receiving your application. Please send it through this webpage: <https://apply.refine.ch/-673277/0864/pub/1/index.html> Any other way of applying will not be considered.

Yours sincerely

*** Christoph Vorburger Eawag, Swiss Federal Institute of Aquatic Science and Technology & Institute of Integrative Biology, ETH Zürich Äberlandstrasse 133 8600 Dübendorf Switzerland

Phone: +41 58 765 5196 e-mail: christoph.vorburger@eawag.ch or vorburgc@ethz.ch
group homepage: <http://homepages.eawag.ch/~vorburch/> ***

“Vorburger, Christoph” <Christoph.Vorburger@eawag.ch>

Edinburgh PlantEvolGenetics

We are seeking an enthusiastic ecologist keen to grow their skills and potentially to build a career with us. The purpose of the role will be to undertake practical work in the field and molecular biology lab in support of projects in the Ecology, Evolution and Environmental Change Group at UKCEH Edinburgh. The position will offer the opportunity to build practical and analytical skills in ecological genetics, and to gain experience in applying the results to the conservation and management of plant genetic diversity. The ideal candidate will be an individual with a passion for ecology, capable of independent and organised working indoors and outdoors, but at an early career stage and with an open and flexible approach to learning new skills.

The post will be within the Ecology, Evolution and Environmental Change group at UKCEH Edinburgh. We are a diverse team, working on a wide range of questions of how plant species and communities respond to change, especially to the new pressures of climate change and novel pests and diseases. We have a particular focus on trees and forests, but undertake research on a range of species in the UK and its overseas territories as well as Europe, Africa and Latin America.

Main duties/responsibilities: The role will primarily involve: Field work including identification, mapping and sampling of wild plant populations and trait measurements in experimental plantations and glasshouse trials;

Molecular biology lab work including DNA extraction, PCR, sample preparation for sequencing and genotyping, flow cytometry; Data handling including analysis and presentation of results. The role will involve travel within the UK and potentially abroad, occasionally for several weeks at a time.

Skills and knowledge required (essential and desirable): The ideal candidate will have a good undergraduate degree in Ecology, Evolutionary Biology or a related discipline, and have some experience of lab and field work. Although fundamental skills in data handling and analysis would be an advantage, we are primarily looking for someone with initiative, the enthusiasm to learn, and a demonstrable ability to undertake organised and efficient work.

Skills to be gained: Field surveying and sampling techniques; Experimental design; Molecular Biology lab skills; Genetic data analysis - population genetics, genomics and quantitative trait data; A wide range of transferable skills including data handling and statistical analysis, presentation, writing and scientific publication.

About the Research Associate Programme The initial appointment for Research Associates will normally be for a three-year term, however they are able to apply internally for permanent vacancies at any time. Subject to the Research Associate's performance and long term skills needs within their Science Area, appointments may be reviewed and considered for open ended positions. There is an expectation that RA will be appointed at the bottom of the salary scale and will automatically progress to the next pay point at the anniversary of their appointment.

How to Apply https://ceh.wd3.myworkdayjobs.com/en-US/CEH_Careers/job/Edinburgh/Plant-Ecological-Genetics_JR422 This email and any attachments are intended solely for the named recipients and are confidential. If you are not the intended recipient, please reply to the email to highlight the error and delete this email from your system; you must not use, disclose, copy, or distribute this email or any of its attachments. UK Centre of Ecology & Hydrology (UKCEH) has taken reasonable precautions to minimise risk of this email or any attachments containing viruses or malware, but the recipient should carry out its own virus and malware checks before opening the attachments. UKCEH does not accept any liability for any losses or damages which the recipient may sustain due to presence of any viruses. Opinions, conclusions or other information in this message and attachments that are not related directly to UKCEH business are solely those of the author and do not represent the views of UKCEH. We process your personal data in accordance with

our Privacy Notice, available on the UKCEH website. <https://www.ceh.ac.uk/privacy-notice> Registered office address; Maclean Building Benson Lane, Crowmarsh Gifford, Wallingford, Oxfordshire, United Kingdom, OX10 8BB Companies Registered Name; UK Centre for Ecology & Hydrology Place of Registration; England Registered Company Number; 11314957

“Cavers, Stephen” <scav@ceh.ac.uk>

FieldMuseum Chicago PteridophytesCurator

<https://careers.hireology.com/fieldmuseum/620575/-description> The Field Museum invites applications for an Assistant Curator of Pteridophytes. We seek PhD-level candidates demonstrating excellence in collections-based research, especially in evolutionary biology and related fields. The successful candidate will be expected to develop a robust externally-funded research program, curate and co-manage the Museum’s pteridophyte collection, pursue opportunities in education, outreach, and professional service, and contribute to the Museum’s administration and public programs.

The Field Museum’s Searle Herbarium is the fifth largest in the Western Hemisphere and houses over 3 million specimens, including nearly 40,000 types. Our collections are particularly strong in tropical Central and South America. The fern and lycopod collection is the fourth largest in the U.S.A., with over 110,000 specimens including almost 1,000 types. The entire collection has been digitized through our participation in the Pteridological Collections Consortium, an NSF- funded initiative to database and image over 1.76 million herbarium and fossil pteridophyte specimens and produce an unprecedented online digital resource for studies of vascular plant evolution. In addition, the Museum has core facilities for molecular/genetic labwork, SEM and light microscopy, and high-performance computing. Close relationships with local universities provide abundant opportunities for undergraduate and graduate training.

This is a full-time (10 month) position with a renewal schedule of 3 + 3 years; after successful promotion to the Associate level, it is renewable every 7 years, according to the Field Museum’s Policy Statement on the Curatorial Ranks.

To apply and for inquiries, please email:

fernssearch@fieldmuseum.org

Applications should include:

- Curriculum Vitae - Statement of research interests and career objectives
- Statement describing experience in and/or vision for increasing diversity and inclusion in a museum setting
- Contact information for three letters of recommendation (solicited for shortlisted candidates only)
- Copies of up to five relevant publications

Submit all materials in PDF format. For full consideration, complete applications should be received by September 30, 2021. The start date will be on or after August 1, 2022.

The Field Museum is committed to equity, diversity, and inclusion and we encourage individuals from under-represented groups in the sciences to apply. We strive to create a working environment that is free of sexual, racial, and ethnic discrimination, and one that promotes human dignity and mutual respect among all staff. As such, it is the policy of the Field Museum to hire without discrimination regarding race, religion, color, national origin, age, sex, sexual orientation, disability, or veteran status.

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

– Richard Ree Curator of Flowering Plants | Head of Life Sciences Negaunee Integrative Research Center Co-Director, Grainger Bioinformatics Center < <https://www.fieldmuseum.org/science/labs/grainger-bioinformatics-center> > Field Museum < <https://www.fieldmuseum.org> > | 1400 S Lake Shore Drive, Chicago IL 60605, USA (+1) 312-665-7857 | www.reelab.net | pronouns: he/him/his

Richard Ree <rree@fieldmuseum.org>

FredHutchinsonResCenter Phylodynamics

The Fred Hutchinson Cancer Research Center (Fred Hutch) invites applicants for an open full-time faculty position at the assistant or associate level in the Vaccine

and Infectious Disease Division (VIDD). The successful candidate will conduct cutting-edge, independent research in the areas of infectious disease dynamics, evolutionary dynamics, pathogen evolution, phylodynamics or genomic epidemiology. The COVID-19 pandemic has pushed the field of pathogen genomics well into the future with over 2.6 million publicly available SARS-CoV-2 genomes as of August 2021. Such genomic data along with other novel data streams enable detailed reconstruction of epidemiological and evolutionary infectious disease dynamics to an unprecedented degree.

We seek candidates who are pushing forward innovative analysis of infectious disease dynamics using large datasets, genomic or otherwise. A successful candidate will establish a dynamic research program consisting of independent projects and collaborative studies pertinent to our mission to identify and quench outbreaks and mitigate spread of diseases such as COVID-19, Ebola, influenza, tuberculosis and other bacterial or viral infectious diseases.

For consideration, the candidate must hold a PhD or equivalent degree in evolutionary biology, epidemiology, computer science, statistics or another relevant discipline. Individuals with computational research programs, with or without lab-based research components, are encouraged to apply. A successful candidate will have demonstrated the ability to work in a highly collaborative environment including investigators with diverse scientific backgrounds, such as virologists, immunologists, statisticians, data scientists and public health practitioners.

At Fred Hutch, we believe that the innovation, collaboration, and rigor that result from diversity and inclusion are critical to our mission of eliminating cancer and infectious diseases. We seek faculty who bring different and innovative ways of seeing the world and solving problems. Fred Hutch is in pursuit of becoming an anti-racist organization. We are committed to ensuring that all faculty hired share our commitment to diversity, anti-racism, and inclusion.

The Vaccine and Infectious Disease Division (VIDD) is a recognized leader in translational and “bench-to-bedside” science. VIDD integrates the expertise and creativity of scientists in basic, translational and clinical research to prevent, treat and cure infectious diseases, including known and emerging infections of major global health importance such as COVID-19, HIV and cancer-related infectious diseases.

More broadly, Fred Hutch has strong data science, genomics, virology and immunology communities that are highly collaborative and supportive, and the scientific community in Seattle is vibrant. Our interdisciplinary

teams of world-renowned scientists and humanitarians work together to prevent, diagnose and treat cancer, HIV/AIDS and other diseases. Our researchers including three Nobel laureates bring a relentless passion to their work and deliver hope to patients who come here from all over the world. Fred Hutch provides outstanding colleagues, a collegial atmosphere, and a wealth of resources to support junior and senior faculty success. Excellent collaborative opportunities exist for joint and/or affiliate appointments in Fred Hutch Divisions of Clinical Research, Basic Sciences, Public Health Sciences or Human Biology, as well as at the University of Washington, depending on mutual interests.

The Fred Hutch offers a vibrant intellectual environment within a beautiful lakeside campus in Seattle’s South Lake Union biotech hub. The Fred Hutch campus contains five major research buildings along with the Seattle Cancer Care Alliance and is in close proximity to major research partners such as the University of Washington School of Medicine, Seattle Children’s Research Institute and the Allen Institute for Immunology.

Interested candidates should submit a CV, a research statement describing past research accomplishments and future research plans (five pages or less), a diversity statement describing your past contributions to diversity, equity, and inclusion and your future plans for continuing these efforts (two pages or less), and the names and contact information for three (3) references.

Applications should be received by October 31, 2021 to assure consideration. Later applications may also be considered if the position has not been filled.

Questions about this position can be directed to Charles Smarr, Fred Hutch Faculty Recruiter, atcs-marr@fredhutch.org.

Please apply at <https://apply.interfolio.com/92807>. Trevor Bedford <trevor@bedford.io>

Gloucester Massachusetts Fish Genomics

We just opened a job ad for a Research Associate (BS/MSc level) to join the Fisheries Team at Gloucester Marine Genomics Institute, that I thought might be of interest to other evolutionary biologists. It would be great if you could include this as a listing in the “Jobs” directory.

Thanks and please let me know if I can provide any

additional information,

-Shelly

Shelly Trigg, Ph.D. Research Scientist Gloucester Marine Genomics Institute 417 Main Street Gloucester, MA

01930 978-879-4575 x 111 shelly.trigg@gmgi.org
www.gmgi.org Shelly Trigg <shelly.trigg@gmgi.org>

MichiganStateU ConservationGenomics

The Fitzpatrick Lab (www.swfitz.com) at the W.K. Kellogg Biological Station, Michigan State University is seeking applicants for a full-time Research Assistant / Lab Manager position. Research interests in the Fitzpatrick lab span topics in evolutionary ecology and evolutionary conservation biology. The successful candidate will have the opportunity to participate in several ongoing conservation genomic projects designed to improve the design, implementation, and monitoring of genetic rescue in federally endangered or threatened species (e.g., Eastern massasauga rattlesnake, Florida Scrub-jay, Mitchell's Satyr Butterfly, Poweshiek Skipperling). Primary duties will include: DNA extractions, preparing whole genome and reduced representation sequencing libraries, bioinformatic processing and analysis, data management, protocol development, equipment maintenance, ordering supplies, applying for and renewing permits, report writing, and basic administrative duties. There will also be opportunities for contributions to experimental design, manuscript preparation, undergraduate mentorship, and field work, depending on the background and interests of the successful candidate.

This position is based at W.K. Kellogg Biological Station (www.kbs.msu.edu <applewebdata://6A7F4885-1018-468C-A768-204CDA96C4D2/www.kbs.msu.edu>), a premier biological research station located ~65 miles from the main campus of Michigan State University. KBS is home to a vibrant community consisting of faculty and their graduate students and post-doctoral researchers, as well as full-time research staff, visiting research scientists, and many summer undergraduates. KBS is home to the KBS LTER program (www.lter.kbs.msu.edu <applewebdata://6A7F4885-1018-468C-A768-204CDA96C4D2/www.lter.kbs.msu.edu>), the GLBRC, and a recently upgraded Molecular Ecology and Genomics Laboratory. KBS and the Fitzpatrick

Lab are committed to positive work culture and creating opportunities for career development in all students, technicians, and postdocs.

This position is for one year initially, renewable depending on performance and funding availability. Start date is as soon as possible, with some flexibility. Salary range is \$47,000-\$50,000 USD depending on previous experience, plus benefits.

Applications will be reviewed on September 20, 2021. The link to apply is here < <https://careers.msu.edu/en-us/job/507535/research-assistant-i> >.

Required Degree Undergraduate degree from a 4-year institution

Minimum Requirements B.S. or M.S. in Biology or related fields; Effective communication skills (verbal and written); Demonstrated proficiency in molecular techniques, including preparation of high throughput sequencing libraries; Experience with bioinformatic processing of next generation sequencing data (e.g., WGS, RADseq, GBS); Excellent organizational skills, including the ability to manage multiple projects at one time

Desired Qualifications The ideal candidate will have a Masters or PhD in a relevant field, or equivalent combination of education and research experience with a focus on conservation/population genomic data collection and analysis. Strong candidates will have experience computer programming including writing and troubleshooting code; a publication record from their Master's or other work (papers published, in press, or submitted); experience with lab/project coordination and management.

Required Application Materials Interested applicants should submit: a cover letter describing research interests and motivation, including a discussion of how your skills are aligned with the needs of the position described above, a CV, and names and contact information for three references

Sarah W. Fitzpatrick, PhD Assistant Professor Kellogg Biological Station and Dept. of Integrative Biology Michigan State University <http://swfitz.com/-sfitz@msu.edu> she/her/hers

MichiganStateU LabTech ConservationGenomics

Lab Technician Position in Conservation Genomics lab The Meek Lab at Michigan State University (meeklab.com) is looking to hire a full-time, highly motivated and skilled lab technician. The lab uses field collections and experiments, combined with next-generation sequencing data, to address fundamental ecological questions that are highly relevant to the conservation and management of species. We primarily work in aquatic systems. This position is for one year initially, renewable depending on performance and funding availability. Start date is as soon as possible.

Primary duties will include:

1. Conducting molecular lab work, such as sample processing, DNA and RNA extractions, PCR, and preparing sequencing libraries (70%)
2. Ordering equipment and supplies for the lab (10%)
3. Lab supply and equipment maintenance, organization, and cleaning (10%)
4. Maintaining a database to organize lab samples (5%)
5. Training and coordinating lab work of fellow lab members and visiting scholars (5%)

Required Qualifications: The job requires: knowledge equivalent to that which normally would be acquired by completing a four-year college degree in ecology, evolution, genetics, or related field, up to six months of related and progressively more responsible or expansive work experience in basic research techniques in molecular ecology; or an equivalent combination of education and experience.

Desired Qualifications: Applicants with extensive experience conducting molecular lab work will be given priority.

How to apply Interested candidates should read about the work we do at <http://meeklab.com> and apply through the MSU Applicant Page at <https://careers.msu.edu/cw/en-us/job/506400/technical-aide> Applications will be reviewed starting on September 1, 2021.

If you have questions, email Dr. Mariah Meek (mhmeek@msu.edu), but do not send application material to this email address. Required applicant materials: 1)

Cover letter describing research and lab work experience and career goals 2) CV 3) Names and email addresses for 3 references

Mariah Meek, PhD Assistant Professor Department of Integrative Biology Ecology, Evolution, and Behavior Program Michigan State University East Lansing, MI meeklab.com She/her/hers

Vice President, Society for Conservation Biology Conservation Genetics Working Group < <https://conbio.org/groups/working-groups/conservation-genetics-working-group> >

Member, IUCN North American Genetics Specialist Group < <https://www.cgsg.uni-freiburg.de/> >

Editorial Board, Conservation Science and Practice < <https://conbio.onlinelibrary.wiley.com/journal/25784854> >

"mhmeek@msu.edu" <mhmeek@msu.edu>

NewJersey HumanBiodiversity

Scientist

Coriell Institute for Medical Research is currently seeking an experienced scientist to join the Biobanking team. The ideal candidate for this role is a PhD with post-doctoral experience and experience in human genetics/genomics research. Additional experience in project and resource management is desirable but not mandatory. We are interested in meeting potential candidates with proven ability to effectively collaborate with scientists and other department leads to oversee biorepository management activities.

The successful candidate will support landmark collections housed at Coriell, including the NIGMS Human Genetic Cell Repository and NHGRI Sample Repository for Human Genetic Research. S/he will also support cutting-edge stem cell and genomic technologies employed for research and biobanking at Coriell.

Under the direction of the Chief Biobanking Officer, the incumbent for this role will be responsible for partnering with other members of Coriell's Biobanking team to oversee and sustain the efficiency and productivity of daily repository operations. Key responsibilities include but are not limited to the following:

§supporting ongoing contract and grant-related requirements

§supporting internal and external reporting requirements

§contributing to scientific conference presentations and peer reviewed publications

§supporting biorepository recruitment and outreach activities

§actively participating in Coriell strategic initiatives and research activities

§contributing to external funding opportunity applications

§performing other duties as assigned

If you are interested in applying for this opportunity, please email a cover letter and resume to careers@coriell.org. Please include a detailed description of your relevant experience in human genetics and/or genomics, along with an explanation of any project and resource management know-how. Applicants are encouraged to highlight their background with non-profit, medical, healthcare, academic, and/or scientific research organization(s).

Now in its 60th year, Coriell Institute for Medical Research is an independent non-profit research center dedicated to the study of the human genome. Expert staff and pioneering programs in the fields of molecular and cellular biology, genetics, genomics and epigenomics, and biobanking drive our mission. To learn more, visit www.coriell.org. Coriell is committed to a respectful and inclusive working environment. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, pregnancy, familial status, sexual orientation, gender identity or expression, age, disability, genetic information, veteran status and all other protected categories under federal or applicable state law. This policy applies to all terms and conditions of employment, including recruiting, hiring, placement, promotion, termination, layoff, recall, transfer, leaves of absence, compensation and training.

Laura Scheinfeldt <lscheinfeldt@coriell.org>

OklahomaStateU PlantEvolutionaryBiology

Plant Evolutionary Biologist

The Department of Plant Biology, Ecology, and Evolution at Oklahoma State University in Stillwater (<http://plantbio.okstate.edu>) seeks a tenure-track Assistant Professor to begin August 2022. The ideal candidate will address fundamental questions in Plant Evolutionary Biology, especially if using approaches that contain a genomic or genetic component. The position will complement departmental strengths in evolutionary biology, ecology, genetics, and cell and molecular biology. The successful candidate is expected to build an innovative, externally-funded research program, and contribute to undergraduate and graduate teaching and mentoring. Effective and engaging teaching of introductory and advanced courses in the candidate's specialty are expected. A Ph.D. in evolution, ecology, genetics, plant biology, or a related field is required; postdoctoral experience is expected. All applications should be submitted online through Interfolio (<http://apply.interfolio.com/93190>). Include 1) cover letter, 2) CV, 3) statement of research accomplishments and future objectives, 4) statement of teaching philosophy and goals, 5) statement of experience and philosophy in the areas of diversity, equity, and inclusion, and 6) names and contact information for three references. Candidates from groups underrepresented in science and academia are especially encouraged to apply. Review of applications will begin October 1 and continue until position is filled, contingent upon availability of funding. Contact information: Destiny Goree, destiny.goree@okstate.edu, 405-744-5559. <http://plantbio.okstate.edu>. 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>. "Fishbein, Mark" <mark.fishbein@okstate.edu>

OregonStateU HatcheryDirector

Director Oregon Hatchery Research Center and Associate/Full Professor (with Tenure), Oregon State University

The Department of Fisheries, Wildlife, and Conservation Sciences in the College of Agricultural Sciences at Oregon State University is seeking a Director for the Oregon Hatchery Research Center (OHRC): <https://jobs.oregonstate.edu/postings/102538> The successful candidate will be hired on a 12-month basis as Director in a professional faculty position at 0.50 FTE and as an Associate or Full Professor at 0.50 FTE in a tenured academic faculty position. The Director position will serve at the pleasure of the Department Head.

The OHRC is a cooperative research venture between the Oregon Department of Fish and Wildlife (ODFW) and Oregon State University (OSU). Goals of the OHRC are to:

1. Understand mechanisms that may create differences between hatchery and wild fish.
2. Develop approaches to manage hatchery fish that conserves and protects native fish.
3. Educate and train students, fishery biologists, managers and the public on the relationship between hatchery and wild fish, the connection between fish and watershed, estuarine and ocean systems, and the implications for fish management and stewardship.

Further details about the OHRC's science goals and its stakeholder Board can be found at: <https://www.dfw.state.or.us/fish/ohrc/> Overview:

The Director leads the OHRC's research, education, and outreach. The individual develops and leads a multi-faceted applied and basic research program and facilitates undergraduate/graduate training, professional development programs, and public education. As an effective researcher, educator, communicator, leader and administrator the Director must: conduct and facilitate collaborative research that aligns with the OHRC goals; operationalize research priorities identified by ODFW and the OHRC Board; articulate the Center's mission, goals and objectives and work effectively with staff, advisory groups, industry groups, public agencies, educational groups, and private organizations; and establish programs and processes which lead the OHRC toward

successful accomplishment of its goals, consistent with fish management needs.

The Director works with the OHRC Board and ODFW to develop and implement research strategies that further the Center's mission, coordinates ODFW-sponsored and externally funded research projects, obtains external funding, supervises OSU employees and students, and communicates science to professional and public audiences. The Director ensures that all people have equal employment and program participation opportunities, particularly those from historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community.

As a tenured Associate Professor or Full Professor at Oregon State University in the Department of Fisheries, Wildlife, and Conservation Sciences, the Director maintains an active research laboratory of graduate students, postdoctoral researchers, undergraduate interns, Faculty Research Assistants and/or Research Associates. Areas of research should include biological, ecological, or social sciences related to salmonid conservation in Oregon and/or improving fisheries through advances in the management of hatchery fish but are not restricted to those topics. The Director is expected to teach one undergraduate or graduate course per year, plus a seminar course, workshop, or experiential learning opportunity for OSU students. Service to the profession and university are also expected.

Oregon State University and the Department of Fisheries, Wildlife, and Conservation Sciences have committed strongly to creating an inclusive work environment that welcomes and supports employees and students from all backgrounds. We actively seek to broaden participation in our academic programs, the field of fisheries science, and in recreational fishing and fisheries management.

This position is located in Corvallis, Oregon and is jointly funded and supervised by OSU and ODFW.

The new closing date (for full consideration) is September 12th 2021.

Start date is as soon as possible, but we will work with the chosen candidate to honor existing commitments with an anticipated start date of January 17, 2022.

Application materials should include: * A cover letter that addresses your interest in the position, and summary of your skills and experience in the context of each of the required and preferred qualifications; * A summary of research interests and ideas/opportunities for collaboration within and external to OSU (maxi-

mum of 3 pages); * A statement on your philosophy and approach regarding diversity, equity, and inclusion; and

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PrattInst PartTimeInstructor Evolution

The Department of Mathematics and Science at Pratt (Brooklyn Campus), seeks part-time faculty applicants for the Fall 2021 semester (and beyond) to teach one or more of the following course sections:

MSWI-260C, Evolution - Section 01 meets Tuesdays 2-4:50pm - Section 03 meets Fridays 9-11:50am

Our ideal candidate is a late-career (ABD) graduate student or early-career post-doc who is interested in teaching nonmajors.

Interested candidates should apply here:

<https://apply.interfolio.com/91768>

Questions about this opportunity? Please contact me!

-Chris Jensen (cjensen@pratt.edu)

Christopher Jensen, PhD | Acting Chairperson

PRATT INSTITUTE Math and Science 200 Willoughby Avenue | Activities Resource Center G 43 | Brooklyn, NY 11205 phone: 718.687.5638 | fax: 718.399-4482 | cjensen@pratt.edu Pronouns = he, him, his / Please feel free to call me “Chris” < <https://www.pratt.edu/-the-institute/diversity-and-inclusion/dei-allies/> >

Christopher Jensen <cjensen@pratt.edu>

SangerInstitute UK TreeofLife

The Tree of Life Programme at the Sanger Institute is seeking to recruit four Faculty leaders at any level with research interests in any (or a combination) of the following: - biodiversity genomics requiring large

scale data generation - comparative genomics of symbiosis. - computational phylogenomics including phylogeny reconstruction across the tree of life.

Faculty positions in Tree of Life

The Tree of Life Programme is a new initiative, taking its place in the global vanguard of genomic science. Our focus is to understand the structure and function of the biomes that support human society, at a time when those systems face acute strain. Using the latest long-read and long-range sequencing technologies, as well as algorithmic advances in assembly and curation, it is now feasible to sequence all life. The Darwin Tree of Life project and Earth Biogenome Project aim to do just that, their ambition only matched by the dedication of their teams. The data gathered across these and other projects will be used to investigate species diversity, species interactions and the evolution of genome structure - and all of it will be made openly available to the wider scientific community. Having launched in 2019, the Tree of Life programme is now fully operational and has become one of the most exciting places to work in biodiversity genomics. We will also gain new insights into molecular mechanisms that underpin genetic associations with diseases and traits involving blood and immune cells, including both disease susceptibility and disease progression, to empower the development of new drugs and the implementation of effective stratified and preventative medicine.

Humanity stands at a crossroads, where climate change and environmental degradation threaten to cause the sixth great extinction. Understanding the interconnectedness of the health of human society and ecosystem health, we will deliver a groundbreaking programme to sequence the diversity of eukaryotic life on Earth. Using decades of experience at the Wellcome Sanger Institute and radical new technologies, we will produce high quality reference genomes and explore their evolution, their functioning, and their interactions with each other. We will analyse these data to understand life’s origins, conserve biodiversity and provide the underpinnings of a new biotechnology.

For more information about the programme visit www.sanger.ac.uk/programme/tree-of-life/ Support in Tree of Life

We have an established core operations infrastructure to support delivery of the far-reaching ambitions of the Programme. The Delivery & Operations teams, led by the Associate Director of Delivery & Operations, are structured into four primary areas:

* Production Genomics: responsible for high-throughput data generation, including assembly and curation for

tens of thousands of reference genomes

* Enabling Platforms: responsible for building new software systems and data management

* Informatics Infrastructure: responsible for implementing cutting-edge informatics pipelines and managing programme IT infrastructure

* Project Management & Operations: responsible for meeting the many compliance, admin and project management needs of our scientists

These teams work collaboratively to deliver a backbone of operational support to the Tree of Life Programme Faculty, as well as major national and international sequencing consortia, enabling them to focus on delivering their cutting-edge research.

The operations teams also provide a key interface with central Institute functions including the core Sanger pipelines within Scientific Operations and the Management Operations teams. The Project Management & Operations team provides day-to-day administration including core and grant funding finance management, identifying third party funding opportunities, and ensuring regulatory and legal compliance in collaboration with central Institute teams.

Roles available in Tree of Life

The Wellcome Sanger Institute is seeking up to four exceptional scientists across all levels of its Faculty model, each joining as a Core Faculty member leading a research team in Tree of Life and contributing to the Institute's scientific portfolio. Positions carry a significant core package of salaries and support, which are backed by rewarding and flexible employment terms including excellent benefits and relocation support.

Our exceptional core funding enables the Faculty to focus their energy on science, supported by a rapidly growing team of dedicated scientists and science facilitators, and benefiting from the state-of-the-art facilities located in the beautiful grounds of the Wellcome Genome Campus.

For further information on the application process, please see our recruitment page



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SouthwesternOklhomaStateU EvolutionaryBiol

The Department of Biological Sciences at Southwestern Oklahoma State University invites applications for a tenure-track assistant professor (Ph.D or ABD) or instructor (M.S.) position starting January 2022.

We are seeking a biologist committed to excellence in teaching organismal biology. We invite applications from all areas of eukaryotic organismal biology especially quantitative, population, or ecological genetics. The candidate will teach across the curriculum including majors and non-majors introductory courses, core biology courses and upper-division courses in their specialty.

Tenure-track assistant professor candidates will also contribute to a growing undergraduate research program and will work with colleagues to integrate research into the biology curriculum. Startup funds and research space are available.

The candidate is expected to participate in department and university service. Our department values collegiality and participation in its mission to provide an excellent learning environment for students. Additional information about the department can be found at: <https://bulldog.swosu.edu/academics/biological-sciences/index.php> . To apply: <https://swosu.csod.com/ux/ats/careersite/1/home/requisition/33?c=swosu> Rickey Cothran Associate Professor & Chair Department of Biological Sciences Southwestern Oklahoma State Univ. <https://rdcothran.wixsite.com/hyalella> “Cothran, Rickey” <rickey.cothran@swosu.edu>

SUNY-ESF Syracuse Collections- ManagerVertebrateAnimals

ANNOUNCEMENT OF PROFESSIONAL VACANCY
State University of New York College of Environmental
Science and Forestry 1 Forestry Drive, Syracuse, New
York 13210-2778

July 21, 2021

MUSEUM COLLECTIONS MANAGER - VERTEBRATE ANIMALS

Campus Title: Collections Manager, Vertebrate Animals

Unit: Department of Environmental Biology

Professional Rank and Salary Range: SL4, Salary DOQ

<https://esf.interviewexchange.com/-jobofferdetails.jsp?JOBID3917>

Brief Description of Duties: The State University of New York College of Environmental Science and Forestry (ESF) in Syracuse, NY invites applications for a calendar year position as an Instructional Support Specialist, serving specifically as the Collections Manager within the Department of Environmental Biology. The successful candidate will be in charge of the physical care, maintenance, accessibility, specimen preparation, and preservation of the College's vertebrate collections and their associated data, housed within the Roosevelt Wild Life Collections (RWLC). These research and teaching collections are primarily composed of birds and mammals, but also fishes, amphibians, and reptiles. The Collections Manager will promote and support use of collections for educational and research purposes, maintain specimen and loan records, and respond to information and loan requests. The Collections Manager will provide technical assistance for collections-related fund-raising, exhibitions, and other tasks associated with specimens and their data. The Collections Manager will also recruit, train, and supervise diverse student interns, volunteers, and researchers in museum techniques, cooperate with faculty across the College to address their collections-related teaching and research needs, and participate in a professional outreach capacity to promote the use and importance of the RWLC for natural history education.

Primary Responsibilities include but are not limited to:

* Position workload: 40% collections management, 30% records administration, and 30% education and outreach * Provide knowledge on vertebrate taxonomy, morphology, and natural history as appropriate to the RWLC, for the purposes of collections management, vertebrate preparation, education, and outreach (including handling extension calls) * Employ best practices in the physical care, maintenance, specimen preparation, preservation, protection, organization, pest management, import/export, acquisition, and strategic growth of vertebrate collections. Some of these duties can include knowledge and proper use of chemicals and their disposal * Stay current on relevant regulatory laws and compliance procedures related to vertebrate collec-

tions, and maintain any permits relevant to the RWLC * Ensure meticulous record keeping and data accessibility * Manage multiple projects and their progress in an organized fashion * Work on extended, iterative tasks (e.g., data entry) with minimal supervision * Use computer as an important collections tool, including word processing, spreadsheets, data entry, file organization, digitization, imaging, and data archiving * Use and modify a relational collections database (especially Specify open-source collections database software) to enter, retrieve, and organize specimen data * Recruit, train, and supervise collections interns, volunteers, researchers, student teaching assistants, faculty, and staff in proper specimen and data handling and related museum techniques * Seek ongoing collections improvement (e.g., data and specimen accessibility and interpretation, physical infrastructure, workflow) * Keep collections spaces and equipment clean, tidy, pest-free, and in working order, addressing any issues in a timely manner * Cultivate specimen acquisition, including specimen exchanges, donations, and field collections or salvage, to address strategic needs, in consultation with Head Curator * Effectively and professionally communicate with members of the college and the public (both written and oral) * Foster a positive and cooperative working environment with undergraduate and graduate students, staff, and faculty from diverse backgrounds * Teach a course in museum techniques, focused on vertebrate animals and specimen preparation * Work with faculty and students to identify collections-based research projects; Collections Manager may also participate directly in research related to collections * Keep abreast of current collections trends, issues, and best collections practices, including biodiversity informatics being an active member of the Society for the Preservation of Natural History Collections (SPNHC)

Requirements:

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TelumTherapeutics Bioinformatics

Bioinformatics Specialist

POSITION DESCRIPTION:

Exciting opportunity for experienced bioinformatician to join the team at Telum Therapeutics (TT). TT is seeking a highly motivated individual skilled in bacteriophage genomics and protein library construction.

Incorporation date: October 2021 or earliest availability

CONTRACT:

Permanent, full time.

Open to flexible working requests.

RESPONSABILITIES:

Computational analysis of various genomic data sets using common bioinformatics tools, statistical techniques, and developing analytic pipelines. Generate endolysin libraries taken from lytic and lysogenic phages with antimicrobial capacity. Provide analysis, reports, and recommendations to senior leadership

REQUIRED SKILLS:

High proficiency in scripting languages: python, bash and SQL are required, R would be an advantage

Excellent proficiency in bioinformatics tools/software (metaSPAdes, ProtParam, RADAR, Phyre 2, ...)

Familiar with public databases for sequence and structural data, as well as protein modelling tools Outstanding communication, collaboration, and problem solving skills

Well organized and able to work both independently and as part of a multidisciplinary team

Knowledge of multivariate statistical analysis, machine learning methods and AWS or similar cloud services would be an advantage

REQUIREMENTS:

Experience with sequence analysis and bioinformatics software Strong problem solving and analytic skills

Ph.D. in Biology, Life Sciences, or a related discipline.

Three (3) to Five (5) years of experience in computational biology

More info: contact@telumtherapeutics.com

KR, Roberto Díez-Martínez, PhD EMBA CEO

Plaza CEIN 5 B1 31110 Noáin, Navarra +34 660 164 975 rdiez@telumther.com

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TexasAMU Head Conservation Biology

Description Applications are invited for the position of Professor and Department Head of the newly formed Department of Ecology and Conservation Biology at Texas A&M University. The Professor and Head will serve as the chief administrative officer for the Department, reporting to the Vice Chancellor and Dean of the College of Agriculture and Life Sciences. This will be a 9-month tenured position, with a research appointment (25-50%), and an administrative stipend equivalent to two months of summer salary.

The Head will provide visionary leadership for numerous departmental initiatives including undergraduate and graduate education; knowledge creation through extramurally funded research; a diverse, equitable and inclusive climate; synergistic relationships with diverse stakeholder groups; and facilitate communication of science-based findings to inform policy. A commitment to working cooperatively with university administration, multidisciplinary and multicultural scholars and the general public is essential. A record of success in the development of funding and program support is expected.

The Department has 37 faculty (<https://eccb.tamu.edu>), offers a B.Sc. degree in Ecology and Conservation Biology that contains four tracks - Ecology and Conservation Biology, Vertebrate Zoology, Forestry, and Ecoinformatics - and has a large graduate student program. The Department occupies a new building and maintains the

Biodiversity Research and Teaching Collections (<https://brtc.tamu.edu/>) and S.M. Tracy Herbarium, which are among the top 10 university-based biodiversity collections in the USA. Research programs in the department address fundamental questions in ecological science that span from genes to ecosystems to produce knowledge that is immediately applicable to pressing 21st century challenges, including climate change, biodiversity loss, ecological restoration, and integrative approaches to conservation. The Department is engaged in the campus-wide interdisciplinary programs of Ecology and Evolutionary Biology (<https://eeb.tamu.edu/>), Genetics (<https://genetics.tamu.edu/>), and Applied Biodiversity Science (<https://biodiversity.tamu.edu/>).

Texas A&M is ranked 4th among public universities, has a student population of 67,000 from all 50 states and 124 countries, and is a top 20 research enterprise. Texas A&M is supported by a \$13.5-billion-dollar endowment and is a Land, Sea, and Space Grant university. College Station/Bryan has 180,000 permanent residents, is consistently ranked among the best places to live in the country, has a low cost of living, and ready access to the metropolitan centers of Austin and Houston.

Qualifications Candidates must have an earned doctorate in ecological sciences or a closely related discipline and possess a record of academic accomplishment commensurate with the rank of full professor. Primary qualifications include an interdisciplinary vision, an internationally recognized research program, demonstrated commitment to inclusive undergraduate and graduate education, and experience in academic administration. Candidates with active research programs and interest in continuing active scholarship at Texas A&M are particularly encouraged to apply.

Application Instructions Applicants should submit the following: 1) a cover letter; 2) a detailed curriculum vitae; 3) a statement of vision for the Department; 4) a research statement; 5) a statement on Diversity, Equity, and Inclusion; 6) a statement of administrative philosophy, and 7) contact information for three to five references.

Applications are to be submitted via Interfolio (apply.interfolio.com/91184). Questions can be addressed to the Advisory Search Committee Chair, Dr. Phillip Kaufman (phillip.kaufman@ag.tamu.edu).

Review of applications will begin September 15 and continue until the position is filled. The position is available January 1, 2022.

Application Process This institution is using Interfolio's Faculty Search to conduct this search. Applicants to this position receive a free Dossier account and can send

all application materials, including confidential letters of recommendation, free of charge.

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.

Sincerely,

Mariana Mateos, Ph.D. (she/her)

Mariana Mateos <mmateos@tamu.edu>

Tufts EcoEvoLecturer

The Department of Biology at Tufts University seeks a full-time faculty member beginning September 1, 2022. The lecturer's responsibilities will include but not be limited to organizing and teaching the lecture portion of an introductory course (Bio 14 ?' Organisms and Populations, usual enrollment ~380 students) which is taught as an integrative course, highlighting linkages between evolution, ecology, and physiology. In addition, the successful applicant will teach a course in biostatistics (Biology 132) and either ecology (Biology 142) or a portion of an ecology laboratory course (Bio 51). Responsibilities will also include undergraduate advising and departmental service.

Qualified candidates must have a Ph.D. and show evidence of successful teaching in introductory and intermediate biology courses. We require experience or invested interest in developing inclusive classroom spaces through equitable mentoring and innovative evidence-based pedagogy that promotes success and career enhancement of underrepresented students in STEM. If desired, the successful candidate will have opportunity to engage in education research in collaboration with the Department of Education at Tufts, or potentially some other area of biological research.

This is an academic year, benefitted, non-tenure-track 2-year position and is renewable contingent upon performance. Lecturers at Tufts University are unionized (<https://access.tufts.edu/collective-bargaining-agreements>) with the potential for long-term

careers with promotional advancement within the Lecturer ranks.

Applicants should submit a cover letter, curriculum vitae, statement of teaching philosophy, statement of commitment to diversity, equity, inclusion, and justice (DEIJ), sample syllabus, teaching evaluations if available, and two letters of recommendation. The DEIJ statement should demonstrate your knowledge of barriers facing under-represented groups in higher education and shed light on your own efforts and future plans to advance DEIJ in the biology curriculum. All application materials must be submitted via [interfolio at apply.interfolio.com/91439](https://apply.interfolio.com/91439)

Please contact staff assistant to the chair/faculty Geneva Frank at Geneva.Frank@tufts.edu with any questions. Review of applications will begin January 5, 2022 and will continue until the position is filled.

uricchil@gmail.com

UCalifornia Riverside GenomicsCoordinator

The INSTITUTE FOR INTEGRATIVE GENOME BIOLOGY AT THE UNIVERSITY OF CALIFORNIA, RIVERSIDE invites applications for an Academic Coordinator in the established Genomics Core Facility. The position will involve running/organizing the genomics core and developing new initiatives for the core & collaboration with other UC Core facilities.

For details and to apply please visit: <https://aprecruit.ucr.edu/JPF01426> Review of applications will begin on 08/23/2021.

Best Wishes, Quinn S. McFrederick

Associate Professor University of California, Riverside
Department of Entomology

Quinn McFrederick <quinnmc@ucr.edu>

UChicago Evolution

As part of a multi-year hiring initiative, the Department of Ecology & Evolution at the University of Chicago is

searching for faculty in evolutionary biology who use either empirical or a combination of empirical and theoretical approaches. Appointment at the rank of tenure-track assistant professor is expected, but applicants for tenured ranks will be considered.

Competitive research space and start-up funding will be available, as will the potential for interactions with our off-campus affiliates, Argonne National Laboratory and the Marine Biological Laboratory. Scientists working on plant evolution will have access to endowed research funds and dedicated space in the greenhouse facilities and the Warren Woods Biological Station in Three Oaks, Michigan. The University is an exciting center of scientific discovery and innovation, and opportunities for multidisciplinary collaboration and participation as graduate student trainers abound. Most university divisions and centers are contained within one compact campus in Chicago's vibrant Hyde Park neighborhood, where many faculty members and students live.

Please apply through the University of Chicago's Academic Recruitment job board, which uses Interfolio to accept applications: <https://apply.interfolio.com/91625>. Applications must include a cover letter, a C.V. including bibliography, contact information for 3 references, a research statement that preferably outlines research goals and highlights up to three selected publications or pre-prints, and a teaching statement that may describe the candidate's experience in teaching diverse students [The University's Diversity Statement can be found at <https://provost.uchicago.edu/statements-diversity>]. Each statement should be less than three pages in length. Review of complete applications will begin September 6, 2021, and continue until the position is filled. Prior to the start of employment, qualified applicants must have a doctoral degree or equivalent.

We seek a diverse pool of applicants who wish to join an academic community that places encourages diverse perspectives, experiences, groups of individuals, and ideas to inform and stimulate intellectual challenge, engagement, and exchange. The University's Statements on Diversity are at <https://provost.uchicago.edu/statements-diversity>. The University of Chicago is an Affirmative Action/Equal Opportunity/Disabled/Veterans Employer and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity, national or ethnic origin, age, status as an individual with a disability, protected veteran status, genetic information, or other protected classes under the law. For additional information please see the University's Notice of Nondiscrimination.

For instructions on the Interfolio application process, please visit <http://tiny.cc/InterfolioHelp>. Job seekers in

need of a reasonable accommodation to complete the application process should call 773-702-1032 or email equalopportunity@uchicago.edu with their request.

Joe Thornton (joet1@uchicago.edu)

Joseph W Thornton <joet1@uchicago.edu>

UKansas Tech Evolutionary Virology

Assistant Researcher position in the Unckless Lab at the University of Kansas The Unckless Lab in the Department of Molecular Biosciences, University of Kansas, seeks an assistant researcher with interests and experience in molecular biology, invertebrate immunity and evolutionary virology. The successful candidate will work with a research group that addresses the broad themes of host-pathogen interaction and genetic conflict. Specifically, the assistant researcher would assist with an NSF-funded study of the genetics of a large DNA virus. The work would involve cloning the virus into a bacterial artificial chromosome (BAC), performing genetic manipulations of the virus, and optimizing cell culture conditions for optimal viral replication. Work will include cell culture, molecular cloning, viral genome sequencing, CRISPR/Cas9 genome editing and microscopy. The position consists of an initial 2-yr appointment beginning in fall 2021. The applicant should be extremely organized, work well with others, have a willingness to learn, and be able to participate at many levels in the laboratory.

Job Description:

50% Cloning a DNA virus into a bacterial artificial chromosome (BAC). Experiments to isolate high molecular weight viral DNA, manipulate plasmid vectors, clone the virus and screen for recombinants. Eventually, this would include genetic manipulation of the virus. These experiments require considerable molecular biology and cell culture work.

20% Optimizing conditions for viral growth in cell culture. Develop new cell lines from relevant species and tissues. Experiment with different media, temperatures, nutrients, etc. and perform assays to measure viral replication and growth.

20% Work on an independent research project. If interested, the assistant researcher can initiate their own research project related to the theme of host/virus interaction if agreed upon with the PI.

10% Experiments in live *Drosophila*. Infect *Drosophila* with the DNA virus and measure mortality, viral titer, host gene expression, etc.

Required Qualifications: -B.S. in Biology or closely related field. -Experience with molecular biological techniques as evidenced by application materials.

Preferred Qualifications: -Experience with cell culture (insect or otherwise). -Experience working with *Drosophila*. -Experience with molecular cloning. -Experience with next-generation sequencing library preparation.

A complete online application includes a CV, cover letter and contact information for two reference letters. For more details including required and preferred qualifications and directions about how to apply, please visit <https://employment.ku.edu/staff/19900BR>. Application deadline is August 31, 2021. If you have any inquiries about the position, please contact Rob Unckless (unckless@ku.edu).

The University of Kansas prohibits discrimination on the basis of race, color, ethnicity, religion, sex, national origin, age, ancestry, disability, status as a veteran, sexual orientation, marital status, parental status, gender identity, gender expression, and genetic information in the university's programs and activities. Retaliation is also prohibited by university policy. The following persons have been designated to handle inquiries regarding the nondiscrimination policies and are the Title IX coordinators for their respective campuses: Director of the Office of Institutional Opportunity & Access, IOA@ku.edu, Room 1082, Dole Human Development Center, 1000 Sunnyside Avenue, Lawrence, KS 66045, 785-864-6414, 711 TTY (for the Lawrence, Edwards, Parsons, Yoder, and Topeka campuses); Director, Equal Opportunity Office, Mail Stop 7004, 4330 Shawnee Mission Parkway, Fairway, KS 66205, 913-588-8011, 711 TTY (for the Wichita, Salina, and Kansas City, Kansas medical center campuses).

“Unckless, Robert L” <unckless@ku.edu>

UMichigan Evolutionary Biology

The Department of Ecology and Evolutionary Biology at the University of Michigan invites applications for a full-time, tenure-track position in any area of ecology or evolutionary biology. This is a university-year appointment at the level of Assistant Professor with an expected

start date of August 29, 2022. A successful candidate will be expected to establish a thriving research program, to effectively teach and mentor both undergraduate and graduate students, and to contribute to an equitable and inclusive departmental climate. They might also leverage University of Michigan and EEB facilities including world class biodiversity collections (Museum of Zoology and Herbarium), a local field research facility (the Edwin S. George Reserve), and a large educational and research facility in northern Michigan (the University of Michigan Biological Station). The university is located in Ann Arbor, which is a vibrant community with excellent schools and proximity to both natural areas and Detroit.

Applications must be submitted here: <https://webapps.lsa.umich.edu/Apply/1441>. You will be asked to upload a cover letter, CV, a concise (2-4 pg) statement describing current and future research plans, a statement of teaching philosophy and experience, a statement of commitment and contributions to diversity, equity and inclusion in academia, and contact information for three references. Application review will begin October 1, 2021 and continue until the position is filled. Questions about this search should be directed to mollyiz@umich.edu, executive assistant for the Department of Ecology and Evolutionary Biology.

EEB is committed to fostering diversity throughout the department, including with respect to race, ethnicity, gender, and disability status of faculty members. Women and members of other groups underrepresented in science are particularly encouraged to apply. The university supports the needs of dual career couples. The University of Michigan is an equal opportunity/affirmative action employer.

Molly Hunter, CAP

Executive Secretary University of Michigan Ecology and Evolutionary Biology

Biological Sciences Building 2240 1105 N University Ave
Ann Arbor, MI 48109-1085 p: (734) 615-4915

f: (734) 763-0544 mollyiz@umich.edu she/her/hers

Molly Hunter <mollyiz@umich.edu>

UNeuchatel EvolutionaryGenetics

The University of Neuchâtel, Switzerland, invites applications for a position of Full professor of evolutionary genetics

Description of position: The successful candidate will teach courses at the Bachelor and Master's levels (7 hours per week and per semester) at the Faculty of Science, in the Institute of Biology. He/she will also supervise Master's and PhD dissertations. He/she will conduct high-level research in evolutionary genetics, using quantitative genetics and genomics. We particularly welcome applicants who take an experimental approach to study sustainable agriculture, as such research complements existing strengths within the institute and hence facilitates internal collaborations. Courses are taught in English (MSc) and French (BSc), requiring a commitment to obtain sufficient fluency in French within one year.

Start date: 1st of January 2023 or upon agreement.

Required qualifications: PhD in Biology, internationally recognized research and funding record in evolutionary genetics and strong teaching and administration skills.

Application Submission Date: 30th September 2021.

Applications should be uploaded onto www.unine.ch/candis (ref. FS-GenEvol) in the form of a single PDF file, including a letter of motivation, a CV documenting full teaching and research experience, a list of publications, copies of diplomas and a list of experts able to assess the candidate's competence (with at least three names). The candidate is also invited to present a statement (three pages max.) of teaching and research interests, his/her scientific approach to the domain, and projects that he/she intends to undertake at Neuchâtel.

Further information can be obtained from the President of the Hiring Committee, Prof. Redouan Bshary (redouan.bshary@unine.ch) or the Dean (doyen.sciences@unine.ch), as well as on the site www.unine.ch/sciences. The University of Neuchâtel is committed to provide non-discriminatory working conditions.

BSHARY Redouan <redouan.bshary@unine.ch>

UNewMexicoMSB HerbariumCollectionManager

The Museum of Southwestern Biology (MSB) invites applications for a Senior Science Museum Collection Manager for the Herbarium (<http://www.msb.unm.edu/divisions/herbarium/index.html>), a full-time, 12-month staff position. The University of New Mexico Herbarium (UNM) is centrally located on the main campus in Albuquerque, a city with a rich cultural heritage in a biodiverse, scenic landscape. The MSB develops and maintains natural history collections for use in research and education, benefiting the university, science, and society at large.

The UNM Herbarium holds over 133,000 vascular plants, bryophytes, lichens, and fungi representing the deep history of botany in the southwestern United States. It is the oldest and most comprehensive herbarium in New Mexico, yet it has modern infrastructure, ample expansion space, and the majority of its specimens have digital and image data. The mission of the Herbarium is to support collections-based research, discovery, and education by collecting, documenting, preserving, and curating specimens and their data. Through these activities, the Herbarium provides unique learning opportunities for field and museum-based botany, enhancing scholarship and outcomes for undergraduate and graduate students at the University of New Mexico. Looking forward, the Herbarium is seeking new ways to implement extended (holistic) specimen models, to utilize its historical collections for the study of change over time, and to provide experiential learning for students.

We seek applicants with a strong commitment to the mission and vision of the Herbarium. The Collection Manager will be one of eight Collection Managers in the MSB. The position offers opportunities for mentoring, outreach, and career development, including research within the context of curatorial priorities.

UNM is an Equal Opportunity/Affirmative Action Employer and Educator. Women and underrepresented minorities are strongly encouraged to apply.

Education and Experience: A Master's Degree with at least 5 years experience with preparation and care of plant specimens and management of a plant collection is required.

Posting Salary Range: \$3,553.33 - \$4,629.42 Monthly

(benefits eligible)

Visit the application on UNM Jobs (req16008) for more information:

<https://unm.csod.com/ux/ats/careersite/18/home/-requisition/16008?c=unm> The following will be required: 1) A Cover Letter for this position should address any and all of the preferred qualifications that you meet for this position; 2) Curriculum vitae; 3) Names and contact information of three references; 4) Unofficial Transcripts (official transcripts will be required before date of hire); 5) Up to two representative publications or other products.

For full consideration, submit materials by August 30, 2021. The position begins in September 2021, or as soon as possible after that.

Please contact the Herbarium Curator, Dr. Hannah Marx (hmarx[at]unm.edu), with any questions.

Hannah E. Marx, PhD (she/her) Assistant Professor, Department of Biology Curator of the Herbarium, Museum of Southwestern Biology University of New Mexico

Hannah Marx <hmarx@unm.edu> Hannah Marx <hmarx@unm.edu>

UWuerzburg TheoreticalEvolutionaryBiology

Dear All,

Below I am passing on an advertisement of a position at Würzburg University (Germany) who seek a theoretical evolutionary biologist (in a wider sense, i.e. including conceptual work): At the Center for Computational and Theoretical Biology (CCTB) of the Faculty of Biology at the Julius-Maximilians-Universität of Würzburg, the vacant position for the

Professorship (W2) of 'Evolutionary Biology'

is to be filled as soon as possible.

The newly established professorship is based in the Bio-center and will be integrated into the Center for Computational and Theoretical Biology (CCTB). The CCTB is a member of the Center for Artificial Intelligence and Data Science (CAIDAS), which is part of the Bavarian High-Tech agenda at the University of Würzburg. The applicant should have a strong track record of both research in and teaching of Theoretical Evolutionary Biology, and thereby strengthen the scientific focus of the

faculty. Experience in procuring external funding and establishing interdisciplinary research collaborations is expected.

The full advertisement and application instructions can be found at:

<https://go.uniwue.de/theoevo> The application deadline is 17th September, 2021.

Klaus Reinhardt TU Dresden (Germany) Faculty Biology

klaus.reinhardt@tu-dresden.de

VanderbiltU EvolutionaryBiochemistry

TENURE TRACK ASSISTANT PROFESSOR - EVOLUTIONARY BIOCHEMISTRY

DEPARTMENT OF BIOLOGICAL SCIENCES, VANDERBILT UNIVERSITY

Vanderbilt University invites applications for a tenure-track, faculty position in evolutionary biochemistry at the Assistant Professor rank. Investigators that apply experimental, engineering, and/or computational approaches to understand a) how proteins or other structural and catalytic features of cells evolve or b) how metabolic pathways evolve are particularly encouraged to apply. The selected candidate will join the Department of Biological Sciences (<https://as.vanderbilt.edu/biosci/>) and the Vanderbilt Evolutionary Studies Initiative (<https://www.vanderbilt.edu/evolution/>), with opportunities for a dual appointment in the Department of Chemistry (<https://www.vanderbilt.edu/chemistry/>) and affiliation with the Department of Biochemistry (<https://medschool.vanderbilt.edu/biochemistry/>) and the Center for Structural Biology (<https://www.vanderbilt.edu/csb/>).

The candidate will be expected to develop an independent laboratory research program that complements current departmental and institutional strengths in evolution, biochemistry, genome science, biophysics, cell and molecular biology, chemical biology, synthetic chemistry, drug discovery, computational biology, host-microbe interactions, and neurobiology. As a new faculty member, the candidate will play an integral role within the trans-institutional Vanderbilt Evolutionary Studies Initiative and will benefit from collaborations with diverse internationally recognized programs, centers, and institutes.

Top candidates will demonstrate excellence in research, highly effective teaching and mentoring to undergraduate and graduate students, and a desire to contribute to a collaborative academic community. Applicants must have earned a Ph.D. no later than August 16, 2022, and preferably one or more years of postdoctoral research experience.

Applicants should submit directly to <http://apply.interfolio.com/93130>: (a) a letter of interest, (b) full curriculum vitae, (c) a statement of research interests, (d) a statement of teaching philosophy, (e) a statement of equity, diversity, and inclusion, and (f) three or more letters of recommendation.

Completed applications must be received no later than October 15, 2021. Vanderbilt University is an Equal Opportunity/ Affirmative Action employer, embraces diversity and inclusion, and has a strong institutional commitment to recruiting and retaining an academically and culturally diverse community of faculty and to teaching students who are diversified by gender, race/ethnicity, and other social locations. Minorities, women, individuals with disabilities, and members of other underrepresented groups are strongly encouraged to apply. Vanderbilt University ranks in the top 15 National Universities and is located in the heart of Music City, Nashville, TN. Nashville is consistently rated as a great place to live (<https://www.vanderbilt.edu/nashville/>).

Antonis Rokas Cornelius Vanderbilt Chair in Biological Sciences Professor of Biological Sciences and Biomedical Informatics Director, Vanderbilt Evolutionary Studies Initiative Department of Biological Sciences, Vanderbilt University VU Station B 351634, Nashville, TN 37235 antonis.rokas@Vanderbilt.Edu; +1-615-936-3892 (tel) <http://www.rokaslab.org> (lab) <http://www.vanderbilt.edu/evolution> (Evolutionary Studies Initiative)

“Rokas, Antonis” <antonis.rokas@Vanderbilt.Edu>

Vienna ResAssoc PlantDroughtAdaptation

Post-Graduate Position in Physiological and Biochemical responses to drought stress

Full Time (40h/w) - Limited for 3 years - Vienna (Austria)

In the Unit of Provenance research and Breeding at the Department for Forest Growth, Silviculture and

Genetics of the Austrian Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BFW), Vienna.

We are seeking an experienced and highly motivated Post-Graduate research associate in the field of plant physiology to join our growing team of scientists and practitioners. This is a unique opportunity to work in a collaborative environment with a dynamic team engaged in the molecular breeding of forest tree species. Our group specialized in genetics and molecular defense responses, is greatly interested in the physiological and biochemical responses to drought stress. Our unit currently lacks a specialist who would expand our scientific knowledge in this area.

Your responsibilities:

The research associate will work within a new project analyzing the role of terpenoids (plant secondary metabolites) on drought stress in Norway spruce (*Picea abies*). The job profile includes the organization and collection of Norway spruce seeds across Europe (especially at the warmest fringe of the natural range), the design and implementation of phytotron experiments, the analysis of physiological traits using advanced multi-sensor and multi-approach high-throughput plant phenotyping platform in Austria (PHENOPlant), scientific data analysis and publication, as well as project management tasks.

Your profile:

- M.Sc. degree in Plant physiology and biochemistry, especially on plant drought stress metabolism and physiology. One scientific publication in plant physiology or this specific area will be greatly appreciated
- Experience in plant phenotyping, physiological and biochemical trait measurements
- Experience in growing and managing plants from the seed to the seedling stage
- Basic Knowledge on genetics, transcriptomics and metabolomics
- Experience with basic research principles and methods, data acquisition, and publishing.
- Scientific writing skills & strong written and verbal communication skills
- High level of self-organization and willingness to work in a team
- Willingness to travel in Austria and abroad for sampling, data collection, data analysis and scientific discussions
- Knowledge of Statistics and R for data analysis. Other programming languages are also welcome (e.g. Python)

- Knowledge of setting-up experimental designs

- Experience in literature research and analysis & experience with large data sets

Others: This is a 40 hour, 3-years term position beginning 1st of October or until the position is filled. The gross monthly salary is at least EUR 2.820,40 based on salary scale for federal employees in evaluation group v1.

If we have raised your interest, please send your application including a cover letter detailing your motivation, your CV and contact information for three references, and one recommendation letter by September 15th, 2021 to the Federal Research and Training Centre for Forests, Natural Hazards and Landscape, 1130 Vienna, Seckendorff-Gudent-Weg 8 via e-mail to: marcela.vanloo@bfw.gv.at.

Link to the job application webpage:

https://www.bfw.gv.at/wp-content/uploads/-/BFW_08_WaldFIT-PostgraduateAss_2021.pdf Vanloo Marcela <marcela.vanloo@bfw.gv.at>

YaleU ResAssist QuantitativeBiology

TITLE:

Research Assistant in Quantitative Biology, Yale University

AGENCY:

Department of Ecology and Evolutionary Biology, Yale University

Ogbunu Lab website: <https://medium.com/geeqslab>

POSITION: The Ogbunu Lab at Yale University is recruiting a fully-funded Research Assistant (RA) to work on a set of projects at the intersection of data science, modeling and computation, for projects ranging in scope from epidemiology, to population genetics, field ecology, and computational social science.

TERMS AND SPECIFICS: The expectation is for an in-person position, for research to take place on site in New Haven, Connecticut, USA. The initial appointment is for one year, renewable upon review. The start date is flexible. Salary is negotiable but will be based on experience. There is no firm deadline: Interviews will continue until the position is filled

RESEARCH KEYWORDS: Computational and mathematical modeling, data analysis, data science, data visualization, data management, programming

SCIENTIFIC DESCRIPTION: The ideal candidate would have experience with a range of computational and/or mathematical techniques.

Skills to be emphasized: data analysis, statistics, mathematical modeling, data visualization, data science. The candidate need not be an expert at all of these, but rather, have a strong enough background that they can build on their skills.

QUALIFICATIONS: Bachelors degree or equivalent in one of a number of fields related to science. Practical experiences are valued. Programming experience is required. Experience with mathematics and computer science coursework is strongly recommended.

PERSONAL CHARACTERISTICS: The ideal candidate would be motivated, organized, and precise. While they should feel comfortable with independence, they

should also enjoy being a member of a research program where communication and collaboration are prioritized. While many personality-types are welcome, decency, professionalism, and generosity are absolute requirements. Those driven entirely by competition and self-interest, rather than curiosity, will be a poor fit.

OTHER ASPECTS: Mentoring and professional development are additional aspects of the traineeship: The PI (Ogbunu) and RA will engage in concrete discussion in these areas. In addition, all members of the Ogbunu Lab are strongly encouraged to participate in outreach, activism, scientific communication, or other activities at the intersection of science and society. Self-care is very high priority.

APPLICATION: Formal Application Link: <https://bit.ly/66418BR.1> Send questions and application materials to: brandon.ogbunu@yale.edu I can also be reached via social media (Twitter & IG): @big_data_kane

“C. Brandon Ogbunu” <brandon.ogbunu@yale.edu>

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EdMembers ProcB Preprint Team

Other: Editorial Members for ProcB Preprint Team

We are seeking new members for our preprint solicitation team. The primary mission of our team is to look through preprints contributed to biorxiv.org, identify work that fits the aim and scope of Proceedings B, and encourage authors to submit their manuscript for consideration, with the overall goal of diversifying the geographic origin of submitting authors—and the type of content that is published in the journal. Active solicitation of submissions from a preprint server highlights the value of a culture where scientific work is rapidly and openly disseminated and recognised, and a broader

goal of this effort is to address social justice-related issues in scientific publishing.

Each month, team members look through submissions made to the BioRxiv subject section that aligns with their individual expertise, and select potentially suitable manuscripts. Authors of promising preprints will be contacted to encourage submission by ProcB Preprint Editor Maurine Neiman. Editorial team members receive feedback on their manuscript suggestions, providing hands-on insight into editorial processes.

For more information on the team, please see these interviews with team members [<https://royalsociety.org/blog/2020/09/trust-in-peer-review-the-role-and-reputation-of-preprints/>], or the recent paper summarising the “development, implementation and impact of a new preprint solicitation process at—Proceedings B” [<https://royalsocietypublishing.org/doi/10.1098/rspb.2021.1248>]

If you are interested in joining the team, please send a brief CV, your current institution and position, and the subject group(s) for which you would be a good fit. We'd also like to hear why you would be interested in joining us, and how your addition to the team would broaden our perspectives and voices. In particular, our team is not yet globally representative, which is why we particularly encourage applications from students and postdocs from the global south

Applications should be send to Robin Bagley [bagley.72@osu.edu], Gozia Gazda [m.gazda@cibio.up.pt], or Friederike Hillemann [friederike_hillemann@eva.mpg.de].

We are currently recruiting new team members for the following subject groups:

———— Animal Behavior & Cognition ———— Biochemistry ———— Bioinformatics ———— Biophysics ———— Cancer Biology ———— Cell Biology ———— Developmental Biology ———— Ecology ———— Epidemiology ———— Evolutionary biology ———— Genetics ———— Genomics ———— Immunology ———— Microbiology ———— Molecular Biology ———— Neuroscience ———— Paleontology ———— Physiology ———— Plant Biology ———— Scientific Communication and Education ———— Systems Biology ———— Zoology

Friederike Hillemann <friederike_hillemann@eva.mpg.de>

GlobalInvertebrate GenomicsAlliance JoinToday

Dear interested GIGA Members,

I'm writing as the Global Invertebrate Genomics Alliance (GIGA) early-career Vice President to try and get YOU to join our mission. The overarching goal of GIGA is to form a collaborative network of diverse scientists that wish to advance the state of invertebrate (non-insect/non-nematode) genomic research for the international scientific community. If you are interested in invertebrates, genetics, genomics, or learning more I encourage you to become a member.

One of the great things about GIGA is that membership is free and we don't require an annual renewal of membership. In the past we have had travel and research grant opportunities for anyone working on invert related genetic/omic projects. Our alliance is going strong with 257 members and it's nearly time to elect new officers for our 2-year positions (President, Vice

President (VP) for Conferences, VP for Early Career Development/Scholarships, and VP for Development and Fund Raising).

What we need from you:

Please visit <https://www.giga-cos.org/membership-join-giga/> and complete the membership form, even if you have done so previously. It's a very simple form that takes no time to complete. Also, please consider sharing this message with any colleagues interested in invertebrate genomics who may not be a member of the alliance.

We look forward to seeing you in GIGA! Everyone is welcomed.

All the best,

Heather Bracken-Grissom

Heather Bracken-Grissom, PhD Assistant Director of the Coastlines and Oceans Division Associate Professor, Institute of Environment & Dept. of Biological Sciences North American Governor, The Crustacean Society

Florida International University-Biscayne Bay Campus
3000 NE 151 Street, MSB-361 North Miami, Florida
33181, USA 305 919-4190 (Phone) 305 919-5838 (lab)

CRUSTOMICS: Crustacean Genomics and Systematics Lab <http://www.brackengrissomlab.com/~heather.brackengrissom@fiu.edu> www.fiu.edu/~marine

Heather Bracken-Grissom <hbracken@fiu.edu>

UZurich Internship TheoEvolBiology

Internship in Theoretical Evolutionary Biology and Database Design and Implementation / Software Engineering

We are seeking an intern for a 3 month project to design and implement a database with a web-based interface. The position is available in the Department of Evolutionary Biology and Environmental Sciences at the University of Zurich.

Your responsibilities The intern will design and implement a database of mathematical models published in academic journals in the domain of evolutionary biology. The database will be accessed via a web-based interfacedesigned and implemented by the intern. The primary users of the database will be academic researchers. The intern will be supervised by a PostDoc.

Your profile You have a Bachelor degree in computer science and previous experience in web-based database design and implementation. A good command in English is required, experience in theoretical/mathematical biology is a plus.

We offer - an excellent opportunity to gain credentials and experience in database design and implementation - flexible working hours and an attractive work environment at one of the Switzerland's leading universities.

Place of work Laboratory of Prof. Hanna Kokko De-

partment of Evolutionary Biology and Environmental Studies University of Zurich Winterthurerstrasse 190 8057 Zurich

State of employment The employment start date is flexible but not later than September 2021. Applicants should submit a CV to Tadeas Priklopil tadeasjan.priklopil@uzh.ch. Application review will start now until the position is filled. Tadeas Priklopil will be pleased to answer your questions.

Tadeas Priklopil <tadeasjan.priklopil@uzh.ch>

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Barcelona Predicting Evolution

Predicting evolution (postdoc in Barcelona): Comparing the approaches of evo-devo and quantitative genetics in predicting artificial selection experiments.

1. Job/ project description:

The research will involve using, refining and adapting an existing mathematical model of wing morphogenesis to explore whether it can be used to predict how wing morphology changes over generations in an artificial selection experiment. In addition, we will estimate the matrix of additive genetic covariances between morphological traits in the wings of the experiment (12 traits per wing to fully conform a multivariate analysis). In contrast to most existing experiments we will estimate this G matrix in each generation to better predict morphological evolution in the experiment. This matrix will also be used to predict the result of the artificial selection experiments. We will then compare, quantitatively, the predictive accuracy of the developmental model approach compared to the quantitative genetics approach. We will not just check which approach better predicts evolution, we will also study which aspects of morphological evolution (e.g. linear/non-linear, dimensionality, etc.) are better predicted by one approach or the other and why.

The research will take place in the Genetics and Microbiology Department of the Autonomous University of Barcelona but in close collaboration with the Biotechnology Institute in the University of Helsinki.

The job is for 1,5 years and it may be extendable for two more years.

2. Background:

The process of embryonic development is now widely acknowledged to be crucial to understand evolution since any change in the phenotype in evolution (e.g. morphology) is first a change in the developmental process by which this phenotype is produced. Over the years we have come to learn that there is a set of developmental rules that determine which phenotypic variation can possibly arise in populations due to genetic mutation (the so called genotype-phenotype map). Since natural selection can act only on existing phenotypic variation, these rules of development have an effect on the direction of evolutionary change.

Our group is devoted to understand these developmental rules and how these can help to better understand the

direction of evolutionary change. The ultimate goal is to modify evolutionary theory by considering not only natural selection in populations but also developmental biology in populations. For that aim we combine mathematical models of embryonic development that relate genetic variation to morphological variation with population models. The former models are based on what is currently known in developmental biology.

There are two traditional approaches to study phenotypic evolution. One is quantitative genetics and one is developmental evolutionary biology. The former is based in the statistics of the association between genetic relatedness and phenotypic variation between individuals in populations, the latter in the genetic and bio-mechanical manipulation of the development of lab individuals. While the former models trait variation with an statistical linear approach the latter models it by deterministic non-linear models of gene networks and tissue bio-mechanics. For the most, these two approaches are largely isolated from each other.

The current project aims to contrast and put together these two approaches in a specific easy to study system: the fly wing. In brief, we are growing fly populations and, in each generation, we select the founders of the next generation based on how close they resemble an arbitrary optimal morphology in their wings (based on the proportions between several of their traits). In each generation also, we estimate the G matrix and the selection gradient to see how well one can predict evolution in the next generation. The quantitative genetics predictions will be contrasted with the predictions stemming from a wing morphogenesis model that we built based on our current understanding of wing developmental biology (see *Dev Cell.* 2015 Aug 10;34(3):310-22 for the model and for slightly similar approaches: *Nature.* 2013 May 16;497(7449):361-4. and *Nature.* 2010 Mar 25;464(7288):583-6 and

Evolution. 2020 Feb;74(2):230-244)

Our groups in Barcelona and Helsinki include researchers working in the developmental biology of teeth, wing, brain and coating patterns and bioinformaticians, population and quantitative geneticists, systems biologists and paleontologists.

3. Requirements:

The applicant must hold a PhD in either evolutionary biology, developmental biology, quantitative genetics, statistics, morphometrics or in evolutionary developmental biology (evo-devo). Applicants with a PhD in theoretical or mathematical biology are also welcome.

Programming skills or a willingness to acquire them is required.

The most important requirement is a strong interest and motivation on science and evolution. A capacity for creative and critical thinking is

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Baylor College Texas Population Genomics

Title: Postdoctoral Associate Division: Molecular and Human Genetics Schedule: Monday - Friday, 8 am - 5 pm Work Location: Texas Medical Center, Houston, TX Salary Range: \$54,540 FLSA Status: Exempt Requisition ID: 7940 Summary

The Atkinson lab in the Department of Molecular & Human Genetics is recruiting a motivated Postdoctoral Associate to lead research projects in statistical and population genomics across diverse human populations. This postdoc will use large-scale genomic datasets to decrease disparities in genetics research across ancestry groups. They will have opportunities for driving analyses in consortium projects and gain mentorship experience via helping to train junior investigators in the group. The postdoc will have the flexibility to tailor projects to their own related areas of interest and work on a range of efforts, including: - Elucidating the genetic architecture of complex (primarily psychiatric) traits in diverse cohorts using ancestry-informed methods for GWAS, PRS, and heritability analyses - Extending and developing statistical and computational tools for the improved genomic study of diverse populations - Characterizing patterns of admixture, demographic history, and evidence of natural selection for key human phenotypes in diverse understudied cohorts

Our lab is in the leadership of multiple international consortia including the Psychiatric Genomics Consortium (PTSD working group), Neuropsychiatric Genetics in African Populations study (NeuroGAP), and the Latin American Genomics Consortium, affording trainees access to a wealth of diverse large-scale genomic datasets containing a wide range of phenotypes for potential study. Baylor College of Medicine is a global leader in genetics research and provides a vibrant multidisciplinary research environment with close links to many

other world-class institutions in the Texas Medical Center as well as BCM-affiliated hospitals across Houston. As a member of our team, you will be provided the opportunity for your contributions to be utilized and recognized across the vast global network of researchers in the fields of genomics and psychiatric disease research.

The successful candidate will take ownership of their project, including involvement in the design, implementation and troubleshooting of analyses, interpretation of data & results, and writing manuscripts and abstracts to report the discoveries in the forms of journal publications and conference communications.

Job Duties

- Analyze large genomic datasets including ancestrally diverse participants and/or modeling demographic history.
- Characterize the genetic basis of psychiatric and other complex disorders.
- Conduct analysis of large-scale datasets in a high-performance computing cluster or cloud-based system.
- Build flexible analytic pipelines and computational resources for study of diverse cohorts.
- Implement statistical genetic tests.
- Interact with and training of junior researchers from diverse backgrounds.
- Disseminate results in the form of publications and conference presentations.

Minimum Qualifications

- * MD or Ph.D. in Basic Science, Health Science, or a related field.
- * No experience required.

Preferred Qualifications

Candidates with backgrounds in genomics, population genetics, bioinformatics, and/or statistics would thrive in our group. Ideal candidates for this role would have a PhD in a relevant field and experience/interest in several of the following domains: - Analyzing genomic datasets including ancestrally diverse participants and/or modeling demographic history - Conducting analysis of large-scale datasets in a Unix system on a high-performance computing cluster or cloud-based system - Coding experience, preferably with some background in python and/or R - Comfort with statistical analysis, especially linear/logistic regression - Willingness to interact with and train junior researchers from diverse backgrounds - Strong writing and presentation skills - Scientific creativity and the ability to work well in a team as well as independently

Strong skills in genomics and an interest in diverse populations are expected. While we study a range of phenotypes and populations, our work is centered around psychiatric traits and mixed populations, so experience in these areas is a plus.

Baylor College of Medicine is an Equal Opportu-

nity/Affirmative Action/Equal Access Employer.

Elizabeth Atkinson, PhD

Assistant Professor Department of Molecular and Human Genetics Lab / Office: 619 / 621 Taub Research Center Baylor College of Medicine egatkinsonlab.com

“Atkinson, Elizabeth G”
<Elizabeth.Atkinson@bcm.edu>

Elizabeth.Atkinson@bcm.edu

Brazil PlantMicrobeInteractions

Are you interested in complex systems? Come join GaTE as a PD fellow to uncover the contribution of genes, genomes and transposable elements at the interface of plant-microbe interactions. This is one of the fundamental processes for the functioning of natural and agricultural ecosystems. The project integrates molecular and bioinformatics approaches from heterogeneous data produced by NGS sequencing of multiple organisms in support of a systems biology view. The selected candidate is expected to address data sources locally produced, contribute with modeling network inferences and predictive outputs.

The position is announced at <https://euraxess.ec.europa.eu/jobs/673083>. The fellowship period is 18 months and may be extended up to 24 months based on performance. Those interested should send a concise CV to gate.pd.gemac@gmail.com, a letter describing your interest in the vacancy, a one-page of the challenges and results achieved during the doctoral period, two letters of recommendation from advisors and/or supervisors and a two-page work plan describing how you can contribute to this project.

Expertise in programming is expected. Modelling biological data and database development are considered differential skills. Interest to use IA to integrate biological networks is a plus. Science background and previous experience will be considered. It is expected that the applicant publication record supports your informed expertise. Please, provide your ORCID, Publons and Google Scholar web link.

Based on the applications received, candidate expertise and research output, an interview will follow for the five most related to the subject area of the announced position. Applicants must have obtained their PhD no later than in the past 6 years.

The vacancy is open to Brazilians and foreigners. The selected candidate will receive a FAPESP Post-Doctoral Research Fellowship.

Marie Anne van Sluys <mavsluys@usp.br>

CambridgeUK 2 BioinformaticsModelling

Dear colleagues,

two post-doc positions are open in the Evolutionary Ecology Group, Department of Zoology, University of Cambridge UK (<http://www.eeg.zoo.cam.ac.uk>). Informal enquiries are welcomed and should be directed to the PI, Professor Andrea Manica, am315@cam.ac.uk.

*Local adaptation in humans * <https://www.jobs.cam.ac.uk/job/30697/> Fixed-term: funds available until 28 February 2022.

We are looking for a highly motivated post-doctoral researcher with advanced skills in bioinformatics and experience handling large datasets to contribute to a project on local adaptation in humans.

You will be an excellent team player, with enthusiasm for working with colleagues in different disciplines. The preferred start date is as soon as possible, given the short duration of the post.

The successful candidate will join an ERC-funded project, led by Professor Andrea Manica, that aims to test hypotheses on drivers of selection for locally adapted genes in humans. The project will take advantage of a novel spatial modelling framework and paleoclimate reconstructions to disentangle complex demographies and heterogeneous selection pressures in space and time. The PDRA will help with the processing of published genomes (both contemporary and modern) to be used in the modelling. Depending on interest and time, there will be opportunities to be involved in the modelling of some of the case studies.

You should hold a PhD in bioinformatics, genetics or a relevant subject, and demonstrable skills in handling large genomic datasets (but it does not have to be on humans). Previous experience working on selection would be desirable. You will enjoy working with a wide range of people, as part of a team, and be able to organise your time effectively.

Application: go to the page <https://www.jobs.cam.ac.uk/job/30697/>, click the 'Apply'

button at the bottom to register an account with the recruitment system (if you have not already) and apply online. Please quote reference PF27495 on your application and in any correspondence about this vacancy.

*Local adaptation in space and time * <https://www.jobs.cam.ac.uk/job/30698/> Fixed-term: funds available until 28 February 2022.

We are looking for a highly motivated post-doctoral researcher with advanced skills in population genetics to expand a novel spatial modelling framework to test hypotheses on the drivers of local adaptation.

You will have excellent coding skills in C++, and help develop additional modules for the modelling framework to cover different types of selection.

The successful candidate will join an ERC-funded project, led by Professor Andrea Manica, that aims to test hypotheses on drivers of selection for locally adapted genes in humans. The project will take advantage of a novel spatial modelling framework and paleoclimate reconstructions to disentangle complex demographics and heterogeneous selection pressures in space and time. The PDRA will work on model development, but, depending on interest and time, there will be the opportunity to be involved in the application of the models to some of the case studies.

You should hold a PhD in bioinformatics, genetics or a relevant subject, and demonstrable skills in coding in C++. Previous experience building population genetics models, ideally with selection, is essential. You will enjoy working with a wide range of people, as part of a team, and be able to organise your time effectively.

Application: go to the page <https://www.jobs.cam.ac.uk/job/30698/>, click the 'Apply' button at the bottom to register an account with the recruitment system (if you have not already) and apply online. Please quote reference PF27497 on your application and in any correspondence about this vacancy.

Michela Leonardi <ml897@cam.ac.uk>

CISRO Australia Skink eDNA

Hello all

I am happy to announce that applications are open for a postdoctoral position to lead the development of a

project using eDNA methods to study the biology of tjakura, the Great Desert Skink *Liopholis kintorei*, in Uluru-Kata Tjuta National Park (UKTNP), the iconic heart of Australia's red centre. We seek an innovative specialist to play a lead role in developing eDNA methodology that will help build a picture of tjakura's population biology in UKTNP and guide its conservation and management.

The postdoctoral fellow will be employed through Australia's federal science agency, CSIRO <https://www.csiro.au/en/>, and strongly supported by Parks Australia <https://parksaustralia.gov.au/>, a branch within Australia's federal Department of Agriculture, Water and Environment. To be based in Canberra at CSIRO's Australian National Wildlife Collection <https://www.csiro.au/en/about/facilities-collections/collections/anwc>, the Fellow will work closely with the traditional owners of Uluru-Kata Tjuta National Park <https://parksaustralia.gov.au/uluru/in> Australia's red centre. Also working closely with the Fellow will be a supervisory team comprising members from CSIRO's National Research Collections Australia <https://www.csiro.au/en/about/facilities-collections/collections> (Drs Leo Joseph, Andrew Young), Parks Australia (Drs Nick MacGregor, Samuel Merson) and the Australian National University (Dr Scott Keogh) <https://biology.anu.edu.au/people/academics/professor-scott-keogh>. Details about the position and how to apply are on the CSIRO Careers web page at <https://jobs.csiro.au/job/Canberra%2C-ACT-CSIRO-Postdoctoral-Fellowship-in-Genomics-and-Population-Ecology/772339000/>. Please feel free to circulate this message widely to whomever you think may be interested. Of course, if you are eligible, please feel very welcome to apply.

Again, and on behalf of the supervisory team, I would be very grateful if you can circulate this widely through your networks and to whomever you think may be interested. Again, should you be eligible please feel free to apply.

Applications close 31 August

On behalf of the supervisory team,

Kind Regards

Leo

Dr Leo Joseph Director Australian National Wildlife Collection National Research Collections Australia, CSIRO GPO Box 1700 Canberra ACT 2601 Australia Phone: + 61 (0)2 6242 1689 Fax: + 61 (0)2 6242 1688 Email: Leo.Joseph@csiro.au Web: <http://people.csiro.au/J/L/Leo-Joseph> "Joseph, Leo (NCMI, Crace)" <Leo.Joseph@csiro.au>

CornellU AshBorerMicrobes

Postdoctoral Position in Evolution of Invasive Insect Microbiomes

Cornell University, Section of Plant Pathology & Plant Microbe-Biology, School of Integrative Plant Science, Ithaca, NY

Position Description:

A postdoctoral position is available to investigate microbes associated with the emerald ash borer (*Agilus planipennis*), an invasive beetle from Asia. This NSF funded project will focus on the taxonomic, functional, and genetic biodiversity of microbes associated with emerald ash borer and to understand how microbial communities may evolve during colonization of this insect pest of new environments and ranges. The postdoc will conduct fieldwork in NY, Minnesota, and Georgia in the U.S. to collect emerald ash borer, ash, and gallery samples and will use both metagenomic and transcriptomic approaches to characterize the microbiomes associated with these environments. They will also investigate functions of microbes in enabling insect infection of ash trees. Functional traits of microbes that may be investigated in laboratory and greenhouse bioassays include degradation of lignocellulose, detoxification of ash plant defense compounds, vectoring plant pathogenic fungi to enhance disease, or entomopathogenic fungi with the potential for biocontrol. This project will collaborate with parallel work being conducted in East Asia (China) to characterize evolutionary changes in microbial symbiont communities between the native and invasive ranges of this insect.

Anticipated Division of Time: Field research - 25%, Laboratory Research - 25%, Computational Data analysis - 30%, Writing - 15%, Mentoring graduate and undergraduate students - 5%.

Requirements: A PhD in Plant Biology, Fungal Biology/Mycology, Entomology, Molecular Biology, Forestry or a related field required. Experience isolating and identifying microbes using metabarcoding or metagenomic approaches, experience using R and other software packages to analyze microbial community composition and structure, and a willingness to learn computational skills to analyze functional gene content of shotgun metagenomes are highly desirable.

Applications: Applicants should submit a cover letter

that addresses the requirements above, and include a statement of your research interests and experience, a curriculum vitae, a statement of diversity, equity, and inclusion, and the names and contact information for three references via <https://academicjobsonline.org/ajo/jobs/19116>. Applications will be reviewed beginning on September 8, 2021 and the position will remain open until filled. The start date is flexible but should be before 01/2022.

Application Materials Required:

Submit the following items online through the above website:

?? Cover letter ?? Curriculum Vitae ?? A statement of diversity, equity, and inclusion ?? A one-page statement of past research interests and accomplishments ?? 3 Professional References (actual letters acceptable but not required, just names and contact information)

And anything else requested in the position description.

Further Info: Please contact Dr. Kathryn Bushley (keb45@cornell.edu) for further information about the position.

The College of Agriculture and Life Sciences (CALS) at Cornell University embraces diversity and seeks candidates who will contribute to a climate that supports students, faculty, and staff of all identities and backgrounds. We strongly encourage individuals from underrepresented and/or marginalized identities to apply.

The College of Agriculture and Life Sciences is a pioneer of purpose-driven science and home to Cornell University's second largest population of students, faculty and staff. We work across disciplines to tackle the challenges of our time through world-renowned research, education and outreach. The questions we probe and the answers we seek focus on three overlapping concerns: natural and human systems; food, energy and environmental resources; and social, physical and economic well-being. CALS is fundamentally invested in improving the lives of people, their environments and their communities both in New York State and around the world.

Diversity and Inclusion are a part of Cornell University's heritage. We are a recognized employer and educator valuing AA/EEO, Protected Veterans, and Individuals with Disabilities. Employment Assistance: If you require an accommodation for a disability in order to complete an employment application or to participate in the recruiting process, you are encouraged to contact Cornell University's Department of Inclusion and Workforce Diversity at voice (607) 255-3976, fax (607) 255-7481, or email at owdi@cornell.edu. For general

questions about the position or the application process, please contact the Recruiter listed in the job posting. Applicants that do not have internet access are encouraged to visit your local library, or local Department of Labor. You may

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Czechia Experimental Computational Microbiology

Two postdoctoral positions in experimental and computational microbiology

The Eukaryotic microbiology group at Centre Algatech, Institute of Microbiology in Trebon, Czech Republic is seeking two post-doctoral fellow researchers, one in Experimental microbiology and another in Computational genomics. The group, led by Jan Janousek, is under the umbrella of Laboratory of Photosynthesis and works on the understanding of diversity, evolution and ecology of protists, algae and cyanobacteria (e.g., Janousek et al., 2017, PNAS 114(2); Janousek et al., 2017 Curr Biol 27(23); Janousek et al., 2019, eLife 8, e49662). The two positions will focus on characterizing novel metabolic pathways in mitochondria and plastids of protists and algae, and their importance to cell biology, organismal interactions and eukaryotic evolution, by computational (bioinformatics and genomics) and molecular methods (genetic transformation, in-situ localization, metabolite profiling, expression analysis, compound radiolabelling).

Located in a picturesque historic building in the heart of a UNESCO biospheric area and regional tourist hotspot, Centre Algatech hosts several internationally recognized groups in microbial photosynthesis research. With a high proportion of international researchers and a friendly, collegial atmosphere, Centre Algatech is driven by research excellence and currently hosts several major grant awards (ERC, EXPRO). The working language is English. We have outstanding facilities for modern biological research within the network of the Institute of Microbiology and strong research ties with the Biology Center of the Czech Academy of Sciences and the University of South Bohemia in Ceske Budejovice, both

located in the nearby capital of the South Bohemian region.

Post-doctoral position in Experimental microbiology: The candidate will have a PhD in Cell/molecular biology, Biochemistry, Microbiology, or Plant/animal biology with an enthusiasm for cell biology processes and metabolism and a record of first-author publications in established journals. S(he) will be highly independent with strong interpersonal skills, and self-motivated to generate own results. Demonstrable experience with cell genetics, biochemistry and/or protists (especially with their lipids and/or phosphorus metabolism) and a record of striving for research excellence are strong assets.

Post-doctoral position in Computational genomics: The candidate will have a PhD in Bioinformatics, Computational biology, or Evolution. (S)he will have independent thinking in developing computational pipelines, experience with big data analysis, and strong communication skills. The candidate will know Shell, Python/Perl and/or R, and have first-author publications in established computational biology research journals. Experience with laboratory genomic and transcriptomic sample preparation pipelines is considered a strength.

We offer: The candidates will be given strong, individual mentorship from the project leader and have the opportunity to instruct PhD and MSc students. They will work in modern research facilities and have opportunities to develop their own research networks by participating in international meetings. The project involves collaboration with the University of Cambridge, University of Southampton, and the ICM in Barcelona and the candidates may be asked to travel to these or other destinations. The institute will offer a post-doctoral contract based on standard academic pay grades, which will consider the amount of previous experience. The contract includes full health and dental insurance paid by the employer and is topped with generous benefits including lunch vouchers, sport activity vouchers, and a paid vacation of 30 days per year. The contract will be for the period of 3 years including an initial probation period of 3 months. The area is highly affordable in terms of living expenses. We strive for gender equality and we welcome applicants from all minority backgrounds.

The preferred start date for both positions is between September 2021 and January 2022. Review of applications will start on August 7, 2021 and continue on a rolling basis. The positions remain open until filled (at which point the advertisement will be taken down).

To apply: Please send a SINGLE PDF document in English containing the following information in the specified order to the lab assistant Lucie Fraitova:

fraitova@alga.cz: - Motivation letter detailing your fit for the position (1 page max.) - Curriculum Vitae (2 pages max.) - Complete list of peer-reviewed publications - Contact information for 2 academic referees (do not include letters with the application)

For further information about the position please contact: Jan Janouskovec: janouskovec[at]alga.cz [1] Centre Algatech, Institute of Microbiology, Trebon, Czech Republic

Links:

[1] <http://alga.cz> janouskovec@alga.cz

Eastern Washington U PopGenSymbiosis

Post-Doctoral Researcher in Symbiosis Evolution and Ecology A two-year postdoctoral research position is available at Eastern Washington University as part of a \$1.4 million NSF-funded collaborative project with The New York Botanical Garden titled “Integrating Digitization, Exploration, Genomics, and Student Training to Illuminate Forces Shaping Appalachian Lichen Distributions.” The project will examine how intrinsic biological characteristics and extrinsic environmental conditions shape species distributions through development of lichen symbioses in the Appalachian Mountains as a model system. The project will involve assembly of new resources for lichen biodiversity through integration of existing biodiversity datasets with new data from extensive fieldwork and laboratory study of reproductive traits. Comparative population genomics of species with contrasting distribution sizes will yield previously unparalleled datasets for symbiont specificity, gene flow, and adaptation.

The postdoctoral researcher will be primarily responsible for conducting multiple large-scale analyses and publishing the results in high-impact journals. Specifically, they will complete the comparative, multi-symbiont population genomics analyses and final integrative modeling of the full dataset. Past experience analyzing population genomics data sets is essential. No prior experience working with lichens is required. Additional aspects of the position can be negotiated to match the postdoctoral researcher’s career goals and interests (e.g., include field work, undergraduate and graduate student mentoring, teaching, and public outreach). This position includes funding for travel to two conferences, workshops, or

other networking and training opportunities each year.

The ideal candidate for this position will take advantage of the opportunity to gain substantial experiences integrating research with undergraduate education. EWU is a regional comprehensive university and the 20 faculty members in the Biology Department excel in undergraduate research and education. The Biology Department also hosts a Master’s of Science program that enrolls 25 students. EWU is located in Cheney, Washington, 16 miles south of Spokane, WA, which was recently recognized as one of the up-and-coming small cities in the USA. Situated at the edge of the Rocky Mountains, a few hours’ drive from the Cascade Mountains, and multiple large lakes and rivers, the area has a great deal to offer outdoor recreation enthusiasts. There are multiple other universities and research institutes in the area with which EWU faculty maintain active collaborations, including Washington State University, The University of Idaho, Gonzaga University, and Pacific Northwest National Laboratories.

The candidate will be co-mentored by James Lendemer at The New York Botanical Garden, and will work collaboratively with the team in New York City as an invited research fellow for a portion of their time in this position.

Requirements:

1. PhD at time of hire in Bioinformatics, Evolutionary Biology, Ecology or related fields,
2. Demonstrated expertise in genomics and bioinformatics,
3. Skills in manuscript writing and publishing.

Preferred qualifications:

1. Ability to analyze population genomics datasets,
2. Student mentoring and undergraduate teaching,
3. Public outreach and science communication,
4. Field and/or lab work with fungi.

Contact: Jessica Allen with your CV and statement of interest at [jallen73\[at\]ewu.edu](mailto:jallen73@ewu.edu)

Award Summary: https://www.nsf.gov/awardsearch/showAward?AWD_ID=2115191&HistoricalAwards=false “Allen, Jessica” <jallen73@ewu.edu>

Harvard U Comparative Population Genomics

We are hiring two postdoctoral fellows to work on an NIH-funded project focused on the comparative and

population genomics of conserved non-coding elements in birds, building on our published work on PhyloAcc, a program to infer evolutionary forces acting on non-coding sequences in a phylogenetic context.

There are two positions. The first position will be ideal for a candidate with a background in Bayesian statistics, and will focus on developing new comparative genomic models and methods to detect genome-wide signatures of adaptive evolution on phylogenies and link genomic and phenotypic variation on trees. The second position will be ideal for a candidate with a background in population genetics or comparative genomics, and will focus on the within-species population genetics of conserved non-coding elements, including linking sequence variation to function in collaboration with colleagues with expertise in developmental biology. Both positions will be based at Harvard University in the groups of Scott Edwards (Organismic and Evolutionary Biology), Jun Liu (Statistics), and Tim Sackton (Bioinformatics).

Funding is available for multiple (up to 3) years; continuation and extension will be based on ongoing successful performance. We expect the successful candidates to be on site so as to maximize interaction with PIs and others working on the project.

Qualifications The preferred candidates will have broad expertise in statistics, computational biology, population genetics, phylogenetics, computer science, or related fields, and a demonstrated record of research achievement (via publications or preprints). Candidates for the first position will benefit from expertise in developing new phylogenetic statistical models and comparative methods, whereas candidates for the second position will benefit from expertise in evolutionary biology, population genetics, or comparative genomics. Experience with bioinformatics, working with large-scale data, and computational method development (using Python, C, C++, or a related language) will benefit any candidate.

However, enthusiasm for the research questions, a track record of accomplishment, and a desire to learn are more important than any specific skills.

Working Environment The successful candidates will be based in one or more of the PI labs (Jun Liu, Scott Edwards, Tim Sackton). The exact logistics are flexible and will depend on the candidate's interests and experience, and the postdoctoral associates will have an opportunity to gain experience and training in bioinformatics, statistics, population genetics, comparative genomics, developmental genetics, and ornithology as necessary. The successful candidates will also have the opportunity to interact with collaborators Emma Farley (UCSD) and Cliff Tabin (Harvard Medical School).

The combined experience of our groups spans a wide range of topics and provides an outstanding opportunity for training, collaboration, and scientific growth. The larger scientific environment in Boston is unparalleled and provides numerous opportunities for engagement, including the Boston Area Evolutionary Supergroup and numerous seminar series and journal clubs.

Contact Preferred start date would be fall of 2021, but there is flexibility around this. To apply, please send a CV and cover letter describing interest and previous experience to Tim Sackton (tsackton at g.harvard.edu), Scott Edwards (sedwards at fas.harvard.edu), or Jun Liu (jliu at stat.harvard.edu) cc-ing all three. Informal inquiries welcome. Applications will be reviewed on a rolling basis until the position is filled.

We are committed to diversity and especially encourage members of underrepresented communities to apply.

Tim Sackton, PhD Director of Bioinformatics Informatics Group Faculty of Arts and Sciences Harvard University

Tim Sackton <tsackton@g.harvard.edu>

ImperialC London ForestMicroclimate

Job Title: Research Associate in Forest Microclimate

Ecosystems cannot be understood through piecemeal studies of their individual components. As a Postdoctoral Research Associate in Forest Microclimate, you will be part of an attempt to generate a synthetic, systems-level understanding of how a tropical forest ecosystem operates. We are building a team to create a virtual rainforest: a general ecosystem model replicating the physical and biotic components of the ecosystem and their interactions, with a view to understanding system-level emergent properties.

You will be responsible of developing a process-based simulation of the physical environment in a tropical rainforest ecosystem, that will be one of four modules that together will form the virtual rainforest (the others are plants, animals and soil microbes). Your simulation will be based on inputs of local topography, macro and regional climate from atmospheric circulation models, and dynamically updated vegetation structure from the plants module, from which it will need to predict spatial and temporal variation in microclimate (e.g. air and soil temperature, soil moisture, vapour pressure deficit),

vertical profiles of wind speed and canopy temperature, and, ideally, streamflow (e.g. base flows, flood frequency and magnitude).

Your primary role will be to develop the physical environment module of a virtual rainforest simulation, and you will be assisted in this by additional team members. The project provides a generous budget for placements and secondments to collaborate with research groups beyond our own. The virtual rainforest will rely heavily on data collected from the SAFE Project (www.safeproject.net), and you will be required to help with the management of these datasets. All team members will be expected to help develop the skills and competencies of their peers through the sharing of tasks and knowledge, and you will be given time, resources and encouragement to pursue your professional development.

We specifically encourage female applicants and applicants from underrepresented groups in STEM subjects. We also welcome applications from candidates that would like full-time or part-time positions on this project, and will explore job-sharing arrangements should that be appropriate.

Applicants from any climate, physics or ecological background are encouraged to apply. You will be one member of a core team of five people, across which we are seeking team members who provide complementary technical skills and disciplinary knowledge. Programming experience - preferably in Python - is essential, and experience with either process-based or numeric simulation modelling is desirable.

This position is full-time and fixed term until 30 September 2024, and will be based at Imperial College London's Silwood Park Campus.

To apply, visit <https://www.imperial.ac.uk/jobs/-description/NAT00971/research-associate-forest-microclimate>, or go to www.imperial.ac.uk/jobs and search by the job reference NAT00971. The deadline for applications is 30-Aug-2021.

Applicants will need to complete an online application, including a CV and cover letter. Cover letters should make clear what disciplinary knowledge you possess, and what subset of the skills required for the whole team that you would bring.

Should you require any further details on the role please contact: Prof. Rob Ewers - r.ewers@imperial.ac.uk. Informal enquiries are welcomed.

“Ewers, Robert M” <r.ewers@imperial.ac.uk>

IowaStateU 2 TurtleEvolution

The Valenzuela lab at Iowa State University (<https://www.eeob.iastate.edu/faculty/valenzuela/>) is recruiting a postdoctoral researcher to work on a 4yr NSF funded EDGE project to develop functional genomics tools in turtles 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 overexpression techniques is preferred.

This work is highly collaborative, and training will also take place in the labs of Maura McGrail and Jeff Essner (Genetics, Development, and Cell Biology), and in the labs of Karin Allenspach and Jonathan Mochel (Biomedical Sciences, Veterinary Clinical Sciences) at ISU.

The initial appointment will be for one year from the date of hire, with the possibility of renewal beyond the initial term. Inquiries can be e-mailed to Nicole Valenzuela (nvalenzu@iastate.edu), and should include a CV and a brief statement of research/career goals.

Application Deadline: Evaluation will begin 1 Sept 2021, but inquiries are still highly encouraged after that point. 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/>).

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 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

Postdoc in Turtle Molecular Cytogenetics

A Postdoctoral position in Turtle Molecular Cytogenetics is open in the laboratory of Dr. Nicole Valenzuela at Iowa State University (<https://www.eeob.iastate.edu/-faculty/valenzuela/>) to work on the evolution of genome

organization across chelonians.

The ideal candidate will have demonstrated expertise on molecular (and classic) cytogenetic techniques such as FISH, zooFISH, CGH, and be broadly interested in evolutionary genomics. Experience with non-model vertebrates (such as reptiles) is preferred. Experience with cell culture is preferred but not required. The initial appointment will be for one year from the date of hire, with the possibility of renewal beyond the initial term depending on availability of funding and upon a satisfactory performance.

Inquiries can be e-mailed to Nicole Valenzuela (nvalenzu@iastate.edu), and should include a CV and a brief statement of research/career goals.

Application Deadline: Evaluation will begin 24 August 2021, but inquiries are still highly encouraged after that point. 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/>).

To apply, please submit your materials at the following link: https://isu.wd1.myworkdayjobs.com/IowaStateJobs/job/Ames-IA/Postdoc-in-Turtle-Molecular-Cytogenetics_R5969 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>

JagiellonianU GenomeEvolution

Postdoctoral position in Bioinformatics ' JU-FBBB

The “Laboratory of Bioinformatics and Genome Biology” lead by Dr. Guillem Ylla will open at the Jagiellonian University (Krakow, Poland) next fall and invites applications for a fully funded 3-year post-doc position starting between November 2021 and January 2022. The candidate will have the chance to work in a young lab, collaborate with international researchers, and use state-of-the-art technologies, infrastructure, and methodologies to study the evolution of genomes and gene regulatory networks.

We are seeking a motivated candidate interested in ana-

lyzing “omics” data to unveil the different mechanisms of gene expression regulation and genome evolution. The candidate will also participate in writing articles and grants, mentoring students, and managing the lab resources. Candidates belonging to minority groups are strongly encouraged to apply. We offer a competitive postdoc salary plus all benefits available for university employees.

Requirements:

- Ph.D. in Bioinformatics, Biotechnology, Biology or similar field.

- Experience in omics data analysis (at least one of the following: genomics, transcriptomics, epigenomics, or metagenomics)

- Good communication skills in English (written and spoken).

- Intermediate or advanced programming skills (R or Python).

- Familiarity with Linux command line.

Preferences: (not required but are a plus)

- Experience working with data from non-model organisms.

- Interests in evolutionary biology, ecology, and/or arthropods biology.

- Experience with R-Shiny, Python-Dash, or similar.

To apply:

Please send the following documents by email to Dr. Guillem Ylla (guillem.ylla@uj.edu.pl) adding “Post-Doc position application ' Your Name” as email subject .

- 1- CV including a list of publications.

- 2- Cover letter describing the research interests (2 pages max).

- 3- The contact information (email and phone number) of 2 to 4 references that might be contacted. Please state the affiliation, position, and role of the references.

About the Lab & PI:

Dr. Guillem Ylla will establish an inclusive and diverse research laboratory at the Jagiellonian University ' the oldest and one of the most prestigious universities in Poland ' Faculty of Biochemistry, Biophysics and Biotechnology. Dr. Ylla was trained as a scientist in world-class research centers and universities in different countries, and published his works in high-impact scientific journals. The laboratory will excel on developing computational tools, and analyzing omics data to study the evolution of the gene expression mechanisms and how these have shaped the evolution.

This position will give you the opportunity to work closely with the PI., have research autonomy, mentor students, engage with international collaborators, and publish your work in scientific journals.

For informal inquiries contact Dr. Guillem Ylla (guillem.ylla@uj.edu.pl) with the email subject "Inquiry about the Post-Doc position 'Your Name'"

–
 Guillem Ylla, Ph.D. Post-Doctoral Fellow
 Department of Organismic and Evolutionary Biology
 Harvard University
<https://guillemylla.github.io> <https://es.linkedin.com/in/gylla>
https://www.researchgate.net/profile/Guillem_Ylla "Ylla, Guillem"
[<guillem.ylla@fas.harvard.edu>](mailto:guillem.ylla@fas.harvard.edu)

KielU MicrobialEvolutionaryGenomics

In the Genomic Microbiology Group of Prof. Tal Dagan at the Institute of Microbiology at Kiel University, Germany, a

Postdoc position (m/w/d)

in the field of computational evolutionary microbiology is available for an initially limited period of 36 months at the earliest possible date. The weekly working time corresponds to 100% of full employment (If the legal requirements under collective bargaining law are met, the tariff grouping is carried out up to pay scale 13 TV-L. The obligation to teach amounts to 4 hours.

The Genomic Microbiology Group research interests are focused on microbial genome evolution with an emphasis on the study of lateral gene transfer. In our research we use both computational and experimental approaches (see www.uni-kiel.de/genomik). The position offers the opportunity to develop an independent research profile within the group research focus. The successful applicant is expected to be involved in teaching of bioinformatics and molecular evolution, including the development of teaching materials (lectures/exercises/short videos).

Your profile: §Doctoral or PhD degree in Molecular Evolution, Bioinformatics or related fields. §Knowledge and experience in programming (e.g., Python) and bio-statistical analysis (e.g., with R or MatLab). §Any of

the following expertise is an advantage: the analysis of genomic or transcriptomic data, phylogenetic reconstruction, comparative genomics. §Good oral and written communication skills in English. §Ability to teach in German is an advantage (alternatively, an indication to do so from the 2nd year on). §Skills and motivation to communicate and interact with other scientists.

The Christian-Albrechts-University sees itself as a modern and cosmopolitan employer. We welcome your application regardless of your age, gender, cultural and social background, religion, ideology, disability or sexual identity. We promote equality of the sexes.

The Christian-Albrechts-University is committed to the employment of people with disabilities. Preference will be given to applications from severely handicapped persons and persons of equal standing, provided they are suitable.

We expressly welcome applications from people with a migration background.

For enquiries regarding the position, teaching obligations and research topic please contact Prof. Tal Dagan: tdagan@ifam.uni-kiel.de.

Applications should be submitted by email to Mrs. Haacks (dhaacks@ifam.uni-kiel.de) as a single PDF and include: (1) a letter of motivation (max 1 page, Arial 11, line spacing 1.15), (2) CV, (3) PhD certificate. Please use 'GMG postdoc application - [your name]' as a subject.

Please, refrain from sending us application photos.

Application deadline: August 31 2021 or until the position is filled. Interviews will take place during September/October 2021. The planned starting date for the position is flexible (but in 2021).

Tal Dagan <tdagan@ifam.uni-kiel.de>

LMU Munich PlantEvolution

Postdoc Position

Faculty of Biology - Princess Therese von Bayern chair of Systematics, Biodiversity & Evolution of Plants (Kadereit group):

<https://www.en.sysbot.bio.lmu.de/people/professors/-kadereit/index.html>)

Occupation date: As soon as possible

End of application period: 05.09.2021

Remuneration group: TV-L E13

Employment time limit: This position is limited to four years.

The position is financed by the Princess Therese von Bayern Foundation to promote woman in Science at the LMU Munich (<https://www.frauenbeauftragte.uni-muenchen.de/foerdermoegl/lmu/therese/index.html>). It also offers a research budget of 5,000 Euros annually. The research topic should match the research area of the chair, but is otherwise open.

Tasks

Independent research, setting up your own working group. Independent acquisition of third-party funding. Supervision of bachelor, master and doctoral theses. Participation in bachelor- and master-level teaching, e.g. supervision of practical courses.

Requirements

You have completed a University degree and above-average doctorate (Ph.D.) in the area of botany, systematics, phylogenetics, biodiversity, ecology, or evolution. You are aiming for a scientific career. You are enjoying working in teams while at the same time shaping your own research profile.

Our offer Your work place is located at the Chair for Systematics, Biodiversity & Evolution of plants at Menzinger Str. 67 in Munich. There is a close cooperation with the Botanical Garden München-Nymphenburg and the Botanische Staatssammlung München. The central facilities of the Chair (molecular laboratory, climate chambers, microscopy, etc.) can be used. The remuneration group is based on TV-L E13. The position is initially limited to one year, but can be extended for up to four years. The position has an annual re-

search budget of 5,000 Euros. There is the possibility of habilitation. Part-time employment is principally possible. Severely disabled people are preferred if they have essentially the same qualifications.

Contact Please send your convincing application documents (including motivation letter, research concept, CV, and list of publications) by 05.09.2021 the latest via e-mail (PDF max 5MB) to Prof. Dr. Gudrun Kadereit.

E-mail: G.Kadereit@lmu.de For further questions do not hesitate to contact Prof. Dr. Gudrun Kadereit. E-mail: G.Kadereit@lmu.de

Anâ€e Âerdoner Ãalasan <A.Zerdoner@lmu.de>

LundU ProteinEvolution

There is a post-doc position available in Gemma Atkinson's protein evolution group in Lund University.

Information and application instructions here:<https://atkinson-lab.com/post-doctoral-scholarship-in-bioinformatics/> In the Atkinson lab our aim is to make fundamental discoveries about the evolution of protein function and structure. We work mainly with bioinformatic methods, developing our own tools and taking advantage of the huge amounts of available genome and predicted proteome sequences. One of our main research directions concerns toxin-antitoxin (TA) systems of bacteria and bacteriophages. Our studies of toxSAS TA enzymes that dramatically inhibit bacterial growth though producing poisonous nucleotides, or modifying tRNA have recently been published in PNAS [1] and Molecular Cell [2], respectively, and our recent discovery of a hyperpromiscuous antitoxin domain that we have named Panacea is currently in revision [3]. As a mechanism of defence against bacteriophages, TAs have significance for developing new biotechnological tools, as well as understanding and eventually overcoming natural barriers to phage therapy for treating antibiotic resistant infections. Our work on toxin-antitoxins, and their evolution, structure, function and biotechnological applications was recently supported by a generous project grant from the Knut and Alice Wallenberg foundation (<https://kaw.wallenberg.org/grundforskning-djupt-inne-i-bakteriernas-arvs massa>).

The post-doctoral scholarship will be an opportunity for scientific development in protein bioinformatics and skill acquisition in coding and web development. Building on

the success of our gene-neighbourhood analysis Python tool FlaGs (www.webflags.se) [4], you will be participating in the development of bioinformatic methods for the discovery of new exciting biology. The bioinformatic predictions will be tested experimentally in our group and through our collaborative network.

References

Jimmy, S. et al. Proc Natl Acad Sci U S A 117, 10500-10510 (2020). Kurata, T. et al. Molecular Cell 81(15): 3160-3170 Kurata, T. et al. biorxiv.org/content/10.1101/2021.05.07.442387v1(2021). Saha, C. K. et al. Bioinformatics 37, 1312-1314 (2021). For more information email gemma.atkinson@med.lu.se

Gemma C. Atkinson Associate Professor Department of Experimental Medicine, Lund University, Sweden <https://atkinson-lab.com/> gemma.atkinson@med.lu.se

Gemma Atkinson <gemma.atkinson@med.lu.se>

creating a safe, welcoming, and supportive lab environment. Applications from candidates with related scientific interests who are also passionate about diversity, equity, and inclusion in STEM are strongly encouraged. Michigan State is an excellent place to be a postdoc, with an extraordinarily favorable cost-of-living : salary ratio, as well as many other labs engaged in exciting population genetics and evolutionary research.

Application instructions can be found at <http://www.genescape.org/recruitment.html>. Applications will be reviewed starting on Sept 13th, but applicants will be considered until the position is filled. If you're interested in the position, please contact [bradburd\[at\]msu\[dot\]edu](mailto:bradburd[at]msu[dot]edu) with any questions.

Gideon Bradburd (*he/him*) Dept. Integrative Biology Michigan State University [genescape.org](http://www.genescape.org) <<http://www.genescape.org/>>

"bradburd@msu.edu" <bradburd@msu.edu>

MichiganState SpatialPopulationGenetics

The Bradburd Lab at Michigan State University is looking for a postdoc to join the lab and work on NIH-funded research in spatial population genetics. Possible projects include: using pedigrees to estimate population density landscapes; two-locus models for the analysis of spatial population structure over genealogical strata; spatial models for identifying adaptive introgression or studying polygenic adaptation.

Research in the Bradburd Lab combines computational and statistical approaches, with a strong emphasis on empirical data analysis. The position is ideal for someone with training in statistical, theoretical, or computational population genetics, and/or someone with a strong background in evolution, mathematical biology, statistics, or computing, and an interest in population genetics.

The position is available for up to three years (starting at 1 year, with annual review), with a starting salary of \$52,000/yr and full benefits. Given the uncertainties surrounding the state of the pandemic, the successful candidate may work remotely (i.e. ghostdoc), at least for the first year of the position, and possibly beyond. The expected start date is January 2022, but that date can be flexible for the right candidate.

The Bradburd lab values diversity and is committed to

MichiganStateU EvolutionaryBiol

MSU PRESIDENTIAL POSTDOCTORAL FELLOWSHIP IN ECOLOGY, EVOLUTION, AND BEHAVIOR

The Ecology, Evolution, and Behavior (EEB) program at Michigan State University invites applications for the MSU Presidential Postdoctoral Fellowship in Ecology, Evolution, and Behavior.

The position is for two years, subject to review after one year, and will begin no later than September 1st, 2022. It has a starting annual salary of \$60,000 plus benefits, as well as a research stipend of \$8,000 per year. We encourage applications from candidates in any early-career stage, from finishing PhD students to current postdoctoral scholars.

The Fellow will be a fully participating member of EEB at MSU and will be expected to have a cutting-edge research program that bridges the interests of two or more EEB core faculty members. A list of possible faculty mentors can be found here: <https://eeb.msu.edu/people/core-faculty/>. Candidates should contact potential faculty mentors before applying, as sponsoring faculty will need to submit letters of support. The Fellow will also propose a community engagement initiative; possible ideas include (but are not limited to): a workshop on diversity, equity, and inclusion, professional development, or a technical research skill; a science communication or public engagement product or event;

a public science initiative, a journal discussion group; curriculum development; etc.

APPLICATION COMPONENTS: Applications (including letters of reference) must be submitted via Careers@MSU < <https://careers.msu.edu/en-us/job/507553/research-associatefixed-term> > (Position 724329) and received by November 12th, 2021. Materials include: cover letter, CV, past and future research statement, community engagement proposal, DEI statement, and up to 2 publications, preprints, or manuscripts representative of the applicant's work. Additionally, applicants should have letters of support from 2 references and a single joint letter from the proposed EEB sponsors.

For more information on the MSU Foundation EEB Postdoctoral Fellowship, including detailed application instructions and the current cohort of Fellows, please see <https://eeb.msu.edu/initiatives/postdoctoral-fellowship/>. Michigan State University is an Equal Opportunity/Affirmative Action employer, and actively encourages applications and/or nominations of women, persons of color, veterans, and persons with disabilities. International candidates are eligible. E-mail questions to committee chair: Gideon Bradburd (bradburd@msu.edu) (however don't send your application material to this email).

"Meek, Mariah" <mhmeek@msu.edu>

MissouriBotanicalGarden 2 PlantEvolutionaryBiology

The Center for Conservation and Sustainable Development (CCSD) at the Missouri Botanical Garden (MBG) seeks to hire two full-time postdoctoral scholars. One position will focus on studying Neotropical plant evolution, biogeography and community assembly and another on population genomics & ecological restoration in the U.S. midwest (descriptions below).

Candidates with a completed Ph.D. or that will soon graduate with a Ph.D. in Ecology and Evolutionary Biology, Botany, Genetics, Restoration Science, Environmental Science, Conservation Biology, or a related field are encouraged to apply. The term for these positions will be up to 2 years, with renewal in the 2nd year contingent on satisfactory performance. Salary will be commensurate with experience, and the positions include a comprehensive benefits package.

Review of applications will begin immediately and continue until either the positions are filled or until the application closes on December 15, 2021. The goal is to have the successful applicants in place by spring of 2022. Applications can be submitted at: <https://us60.dayforcehcm.com/CandidatePortal/en-US/MBG>
POSITION 1. Postdoctoral Fellow on Plant Evolution, Biogeography and Community Assembly

The postdoc will work closely with Drs. Christine Edwards and J. Sebastian Tello at MBG as part of an NSF-funded project to study how mountain uplift has shaped the plant diversity of the Tropical Andes, the most species-rich biodiversity hotspot in the World. The postdoc will work with existing biodiversity datasets and generate new phylogenomic information using tissue samples collected in Latin America. The focus of the project is to study how the uplift of the Andes has shaped the evolution and distribution of species and the assembly of tree communities. During this work, the postdoc will have an opportunity to build their skills in bioinformatics, molecular phylogenetic reconstruction and biogeographical analyses, as well as to interact with MBG researchers and collaborators in the U.S. and Latin America. Further details and applications at: <https://us60.dayforcehcm.com/CandidatePortal/en-US/MBG/Posting/View/755> Essential Duties and Responsibilities: * Conducts DNA sequencing, genotyping and or/ data mining of DNA sequences databases * Conducts phylogeny reconstruction, biogeographic analyses, and analyses of trait evolution. * Conducts analyses of phylogenetic community composition and turnover. * Conducts research and writes results for publication in collaboration with researchers in North America and Latin America. * Participates in scientific meetings and delivers lectures to professional organizations and to the general public.

Qualifications/Experience: * Strong background including (2) years prior experience in one or more of the following fields: molecular systematics, phylogenomic, population genomics, biogeographic analysis, phylogenetic community ecology. * Strong background including a minimum of (6) months prior molecular lab experience.

POSITION 2. Postdoctoral Fellow on Population Genomics & Restoration

The postdoc will work closely with Dr. Christy Edwards in the Conservation Genetics Laboratory at MBG. The candidate will 1) develop and implement collaborative research project(s) that employ population-genomic techniques to evaluate the effects of restoration techniques on the genetic diversity, genetic structure, and population dynamics of restorations in woodlands, savannahs, and grasslands at MBG; $\frac{1}{2}$ s Shaw Nature Reserve and

the broader region; 2) train and mentor undergraduate and graduate students; 3) assist MBG scientists with coordinating grant-funded activities including recruitment and mentoring of students, organizing and participating in outreach events and workshops, and presenting lectures to professional organizations and the general public; 4) prepare and submit manuscripts for publication; 5) build relationships with SNR staff and collaborative partners; and 6) actively participate in events with the St. Louis Ecology, Evolution, and Conservation community. Further details and applications at: <https://us60.dayforcehcm.com/CandidatePortal/en-US/MBG/Posting/View/612> MBG's Shaw Nature Reserve contains over 2000 acres of fire-maintained woodlands, grasslands, and glades. Ecological restoration (i.e., selective tree thinning, removal of invasive species, prescribed fire) has been ongoing at SNR over the last 3 decades. The restorations have also involved seeding of native species from local and regional seed sources, and the successful candidate will be expected to work on research projects related to these restored populations of native plants at SNR and other

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MIZ Poland Beetle Phylogenomics

Postdoc: MIZ_Poland.BeetlePhylogenomics

Call for a postdoc position

The research group led by Dr. Dagmara Zyla at the Museum and Institute of Zoology, Polish Academy of Sciences (MIZ, PAS) is looking for candidates for a postdoc position to work within the project entitled: “The Impact of the Paleocene-Eocene Thermal Maximum on diversification dynamics in Paederinae rove beetles” funded by the Polish National Science Centre. The main goal of this project is to investigate the evolutionary response of Paederinae predatory beetles to the most rapid and significant climatic warming event in Cenozoic. To do so, a set of innovative methods, such as machine learning for species identification, Next Generation Sequencing, and Bayesian statistical phylogenetics will be combined with modern approaches in insect systematics.

Scope of work - performing laboratory work, i.e. DNA

extractions, library preparation, enrichment with UCE baits, sequencing - processing and preparing raw sequences for the phylogenomic analysis - participating in phylogenetic and diversification dynamics analyses - working closely with other members of the group - participating in data analysis and interpretation of the results - writing publications with other members of the team - presentation and dissemination of the obtained results in the form of conference talks and scientific papers

Requirements - PhD degree in biological sciences or a related area, awarded or to be awarded before October 2021, but no earlier than 7 years ago - experience in the molecular lab work, including NGS techniques - experience in bioinformatics concerning the analysis of genomic data for phylogenetic purposes - theoretical knowledge on phylogenetics and evolutionary biology - experience in working with beetles will be an advantage, but it is not required - fluency in English (at least B2 level) - enthusiasm for science - communication and organizational skills - creativity, high motivation and ability to work alone and in a team

Conditions of employment: The postdoctoral researcher will be based in the Museum and Institute of Zoology in Warsaw, but will also work in close collaboration with the Centre of Natural History (CeNak) in Hamburg (Germany), part of the Leibniz Institute for the Analysis of Biodiversity Change (LIB). The position starts on 1.10.2021 or soon after and is funded for 2 years.

A gross salary in the amount of 8300 PLN (ca. 6400 PLN after taxes ~ 1400 EUR) per month will be offered to the successful candidate. This is sufficient to cover the life expenses and assures a good standard of living in Poland.

Research environment The research at MIZ is focused on a broad range of themes in animal biology, including systematics, biogeography, evolutionary biology, ecology and population genetics. Dagmara Zyla's research group is part of the Department of Systematics, Zoogeography and Ecology of Invertebrates led by Prof. K. Wioletta Tomaszewska focused on insect systematics, taxonomy, evolution and phylogeny. MIZ laboratories contain modern equipment for genomic analyses, as well as tools for studying morphology, like SEM and micro-CT. The Museum's zoological collection is among the largest and most valuable in Europe.

Application process The deadline for submitting the application is 29.08.2021 11:59 pm CEST. The application must be in English. Please submit the documents as one PDF file named with your surname to zyladagmara@gmail.com with the email subject “Application for a postdoc position”. The file must include:

1. A copy of your PhD degree certificate (or a document confirming your enrollment in a PhD programme together with a letter from the PhD supervisor stating the expected completion date)

2. Cover letter (max. 1 page)

3. CV including the list of publications and/or manuscripts in preparation, with the following statement provided at the end: "I give my consent to the processing of personal data provided in my application documents by the Museum and Institute of Zoology PAS for the purpose of the recruitment process, pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation; L 119 from 04.05.2016)".

Important: Applications that do not include this statement will not be considered.

4. Contact details of two persons who could provide references.

The candidates will be assessed based on the information in the submitted documents. The shortlisted candidates will be invited for an online interview and the results are expected on 17.09.2021 the latest.

All interested candidates, irrespective of age, gender, race, disability, religion or ethnic background are encouraged to apply.

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NorthCarolinaStateU
Computational Evolutionary
Genetics

The Guerrero lab at NC State University is recruiting a postdoctoral researcher. The lab, in the Department of Biological Sciences and affiliated with the Bioinformatics Research Center, focuses on a combination of data analysis and mathematical/statistical modeling in

population genetics. We are looking for an independent researcher who is interested in developing and testing evolutionary genetics theory. Specific questions and systems are flexible.

We are interested in a collaborative researcher that has completed, or will soon complete, their PhD in Biology (Evolution or Genetics), Bioinformatics, or related field. Previous experience with population genetics modeling is preferred but not required. The ideal applicant will have expertise in some combination of the following research areas: sex chromosome evolution, structural variation / chromosomal rearrangements, speciation genetics, genetic interactions and genetic conflict.

Funding is available for three years, subject to annual review and can begin as early as October 1, 2021.

To apply, please contact Rafael Guerrero by email (rfguerre@ncsu.edu) with a CV and a one-paragraph description of primary research interests to explore potential research directions and overall fit to the position. Interviews will take place via Zoom. Applications will be considered until the position is filled.

Rafael F. Guerrero Department of Biological Sciences
North Carolina State University Raleigh, NC 27695

Web: rguerrer.org Twitter: @guerruhroh

Rafael Guerrero <rfguerre@ncsu.edu>

NTNU Norway PDF PhD
EvolutionaryEcol

Hi,

I have two three-year postdoc positions and a PhD in evolutionary ecology available at the Centre for Biodiversity Dynamics, NTNU, Norway.

Details are below. Application deadlines are Sept 21st 2021. Enquiries can be sent to me (jane.m.reid@ntnu.no).

Many thanks for your help,

Jane Reid

PhD in Evolutionary Movement Ecology

<https://www.jobbnorge.no/en/available-jobs/job/-210635/phd-opportunity-in-evolutionary-movement-ecology> Postdoctoral position in theoretical evolutionary ecology <https://www.jobbnorge.no/en/available-jobs/job/210627/postdoctoral-research->

[fellow-in-theoretical-evolutionary-ecology](https://www.jobbnorge.no/en/available-jobs/job/210483/postdoctoral-research-fellow-in-quantitative-evolutionary-ecology) Post-doctoral position in quantitative evolutionary ecology <https://www.jobbnorge.no/en/available-jobs/job/210483/postdoctoral-research-fellow-in-quantitative-evolutionary-ecology> “Jane M. Reid” <jane.m.reid@ntnu.no>
jane.m.reid@ntnu.no

Okinawa 3 EvolutionaryBiology

The Kondrashov lab is looking for a Data Scientist to establish and maintain a workflow of analyses of complex experimental data of the genotype to phenotype map (fitness landscape). The main directions of research include the application of machine learning approaches on large in-house experimental data from deep mutational scans and other synthetic libraries probing the fitness landscapes of proteins and more complex genotypes. Development of the scientist’s own research direction is encouraged and training and supervision of molecular work of junior scientists and students is expected. The position is in Okinawa, Japan, salary competitive and negotiable, long-term contracts available, starting date from January 2022. Applicants should send their CV and statement of purpose to Fyodor Kondrashov (fkondrashov@gmail.com). Please include a brief description of the research direction in data analyses and/or machine learning that is most interesting to you.

The Kondrashov lab is looking for an experienced molecular and/or synthetic biologist to spearhead a series of experiments focusing on the study of the genotype to phenotype map (fitness landscape). The main directions of research include the study of deep mutational scans and other synthetic libraries probing the fitness landscapes of proteins and more complex genotypes. Development of the scientist’s own research direction is encouraged and training and supervision of molecular work of junior scientists and students is expected. The position is in Okinawa, Japan, salary competitive and negotiable, long-term contracts available, starting date from January 2022. Applicants should send their CV and statement of purpose to Fyodor Kondrashov (fkondrashov@gmail.com). Please include a brief description of a fitness landscape or synthetic biology project you may wish to undertake independently and why you may want to do it.

The Kondrashov lab is looking for an experienced bioinformatician to spearhead genomic and bioinformatic analysis for a range of projects in the lab. The main directions of research include assembly and annotation of non-model organism genomes and work with sequencing of DNA libraries from experiments of deep mutational scans. Development of the scientist’s own research direction is encouraged and training and supervision of bioinformatic work of junior scientists and students is expected. The position is in Okinawa, Japan, salary competitive and negotiable, long-term contracts available, starting date from January 2022. Applicants should send their CV and statement of purpose to Fyodor Kondrashov (fkondrashov@gmail.com). Please include a brief description of a genome sequencing project you may wish to undertake as your own project and why you may want to do it.

Fyodor Kondrashov <fkondrashov@gmail.com>

OklahomaStateU EvolGeneticsAmphibianDisease

Postdoctoral Position, Oklahoma State University Ecological Immunogenetics and Amphibian Disease Ecology

Research in the Waldman lab at the Department of Integrative Biology at Oklahoma State University focuses on the interaction of disease, adaptive immune function, and the evolution of behavioral strategies to effectively respond to emerging infectious pathogens.

Recent studies demonstrate that amphibians can rapidly evolve immunogenetic defenses to pathogens such as the amphibian chytrid fungus. However, these adaptations potentially entail life-history costs that otherwise decrease fitness. We are examining, from an integrative perspective, how immune system genes, through the production of major histocompatibility complex (MHC) molecules and their regulation of microbial assemblages, generate social signals. Studies are underway both of the mechanisms of social discrimination and their fitness consequences.

The project is global in scope, and takes advantage of collaborations with researchers in Asia, Australia, Central America and Europe. The successful candidate will have ample opportunities to interact with members of our department along with international colleagues. The Department of Integrative Biology has 28 faculty whose research addresses three main research themes: ecology,

evolution, and environmental stress, all key aspects of our project.

Candidates should have a Ph.D. in biology or related fields with experience in molecular biology, population genetics, bioinformatics, and a strong interest in evolution. Initial appointment is for one year, with expectation of renewal given satisfactory progress. The position is available beginning October 1, although the start date can be negotiated.

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. Stillwater offers a high quality of life in a thriving college community with a low cost of living, and a local airport served by daily commercial flights. Two major metropolitan areas, offering additional cultural, recreational and shopping opportunities, are little more than an hour away by car.

Applications should include a cover letter describing your experience and goals for the position, a full curriculum vitae, and the names and contact details (phone numbers and email addresses) of three references. Preliminary enquiries are welcome. Review of applications will begin 08/15/2021 but will continue until the position is filled. Applications or enquiries should be emailed to bruce.waldman@okstate.edu.

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>. Bruce Waldman Department of Integrative Biology Oklahoma State University 501 Life Sciences West Stillwater, Oklahoma 74078

Bruce Waldman <bw@bronze.lcs.mit.edu> Bruce Waldman <bw@bronze.lcs.mit.edu>

OregonStateU MarineEvolutionaryGenomics

Postdoctoral Research Scholar - Evolutionary and Physiological Genomics

A postdoctoral scholar position is available in the research group of Dr. Felipe Barreto in the Department of Integrative Biology at Oregon State University. The position is funded by an NSF grant led by Dr. Barreto and Dr. Allie Graham (University of Utah).

Research in our lab examines broad questions in evolutionary biology in marine animals. The successful candidate will participate in work examining the genetics of adaptations and reproductive isolation in the lab's primary study system, the intertidal copepod *Tigriopus californicus*. Upcoming funded projects will focus on genetic mechanisms of response to environmental hypoxia in *T. californicus*, combining field and laboratory studies of physiology and gene expression with experimental evolution and trait mapping, among others. In addition, the postdoc trainee will be encouraged to develop projects on new questions and/or new study species according to their interests, strengths, and training goals.

Please visit our research websites for more details on our research:

<https://www.barretolab.com/> <https://alliemgraham.weebly.com/> Candidates must have a Ph.D. in biology or related fields, with a strong background in evolutionary genetics, as demonstrated by scholarly activities.

The work will involve a range of laboratory (physiology and molecular genetics) and computational (bioinformatics and statistics) approaches. Skills in these areas are desirable but not required for applying, as the position will provide continuous opportunity for training in these areas.

The position is available as early as October 1, 2021, but the start date is flexible, and we can accommodate start dates as late as Summer 2022. We will begin screening applications on September 1, and will continue until the position is filled.

To apply, please send the following to Felipe Barreto by email (felipe.barreto@oregonstate.edu):

- A current CV

- A brief personal statement (1-2 pages) describing research background and interests and motivation for this position.

- Contact information for up to 3 professional references.

Informal inquiries before applying are welcome!

Additional information:

Dept. of Integrative Biology: <http://ib.oregonstate.edu/> Center for Quantitative Life Sciences: <https://cqls.oregonstate.edu/> Oregon State University in Corvallis, OR is located within the traditional homelands of the Mary's River or Ampinefu Band of Kalapuya. Following the Willamette Valley Treaty of 1855 (Kalapuya etc. Treaty), Kalapuya people were forcibly removed to reservations in Western Oregon. Today, living descendants of these people are a part of the Confederated Tribes of Grand Ronde Community of Oregon and the Confederated Tribes of the Siletz Indians.

Felipe S. Barreto Assistant Professor Department of Integrative Biology 3029 Cordley Hall Oregon State University Corvallis, OR 97331

Felipe Barreto <felipe.barreto@oregonstate.edu> Felipe Barreto <felipe.barreto@oregonstate.edu>

PennsylvaniaStateU 2 DeerConservation

Post Doctoral Scholar

Establishing a national tissue and reagents repository for chronic wasting disease

We seek a postdoctoral researcher to assist in establishing a national CWD tissue and reagents repository. The significance of this program is multifold. First, a repository of CWD field isolates from a wide-ranging geographic location in North America will allow, for the first time, the means to begin to assess the distribution and frequency of CWD strains in North America. Since prion strains can differ in pathogenicity and host range, this is essential data for the determination for risk of interspecies prion transmission to humans and to domestic livestock and wildlife. Second, this repository can provide uniform standardized CWD-infected and uninfected sources of tissue for diagnostic development, mitigation testing and for basic research purposes. Finally, the implementation of the repository will facilitate cooperation between the various state agencies that

could lead to new collaborative efforts.

The Post Doctoral Scholar will be responsible for three specific objectives: 1. Summarize current state of knowledge of known strain types in various cervid species throughout the world for submission to a peer reviewed journal, 2. Assist in creating online infrastructure for a virtual tissue and reagents repository for chronic wasting disease along with researchers at the Department of Energy, Oak Ridge National Laboratory (ORNL), and 3. Assisting ORNL with linking metadata for tissues and reagents to the repository by working with state agencies interested in contributing samples to the online repository.

This project aligns with FY21 EMA annual guidance, and was funded by the U.S. Geological Survey (USGS) RFP priority: Chronic Wasting Disease. This is also part of a larger collaborative effort with the USDA-APHIS-WS, National Wildlife Research Center and USGS.

The successful candidate will be part of an interdisciplinary group that includes ecologists, geneticists, veterinarians, and state agency researchers. This full-time position is located at The Pennsylvania State University, University Park, Pennsylvania or remotely depending on the candidate's preference. The selected candidate must agree to follow all Covid-19 safety guidelines and protocols established by the university. This is a one-year appointment, with an additional 6 months possible pending performance and funding availability. Start date is flexible and dependent upon hiring process but ideally within a month or two of offer.

Salary: \$60,000/year plus excellent benefits.

Closing date: Until position filled

Qualifications: Competitive candidates should be highly motivated and possess a PhD in prion biology or disease epidemiology or a related discipline. Specific experience with prion biology is preferred. The ability to work both independently and collaboratively in a team environment is essential. Submission to or publishing in peer-reviewed journals is required and mandatory prior to any potential renewal beyond the one-year appointment. Please provide: (1) a cover letter detailing your experiences for the qualifications above and how they have prepared you for this position, (2) a CV, (3) names and contact information of three professional references, and (4) two relevant publications. Please submit these materials to Dr. W. David Walter via email (wdw12@psu.edu) as a single pdf. Qualified applicants will need to also submit application materials to Penn State's employment website at https://psu.wd1.myworkdayjobs.com/en-US/PSU_Staff —

Postdoctoral Research Associate

Linking Genetics to Movements of White-tailed deer to Assist Surveillance for Chronic Wasting Disease.

We seek a postdoctoral researcher using landscape genetics to understand landscape features, dispersal characteristics, and transmission and spread of chronic wasting disease (CWD) in white-tailed deer through assessment of population structure throughout the state of Minnesota. This is the culmination of a research effort that was initiated in 2019 in the Southeast CWD Management Zone of Minnesota that has since expanded to other parts of the state in the North Central, South Metro, and Southeast Control Zones as CWD has expanded. The post doc will be responsible for identifying the frequency and distribution of prion gene variants (PRNP) and use of microsatellite genotypes and mitochondrial haplotypes to explore culling operations in free-ranging white-tailed deer. To date, nearly 600 deer from several management zones have been genotyped with additional samples to be added in 2021-2022. This project aligns with FY20 EMA annual guidance, and was funded by the USGS RFP priority: Chronic Wasting Disease: Research to investigate the impact of genetics on CWD dynamics in cervid populations.

The successful candidate will be part of an interdisciplinary group

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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>

Postdoc:UTexas MitochondrialMutations

The Havird Lab at the University of Texas at Austin is looking for an enthusiastic and motivated postdoctoral researcher (start date is flexible). This is part of an NIH-funded project to examine the causes and consequences of mitochondrial mutations (<https://tinyurl.com/3zmx83ef>). Postdocs will have the opportunity to develop independent projects that complement research themes in the lab on molecular evolution, cytonuclear interactions, and environmental physiology.

Of particular interest are applicants with experience analyzing next-gen sequencing data in the context of detecting mutations through sequencing approaches.

Related projects in the lab examine coevolution between cytoplasmic and nuclear genomes, the roles of cytoplasmic genomes at species boundaries, and ecophysiology/environmental adaptation (<https://sites.cns.utexas.edu/havird>). Multiple organismal systems are used in the lab, including plants and animals, as well as making use of existing publicly available genomic datasets (especially during remote, quarantine-driven work).

The lab is part of the growing Integrative Biology Department at the University of Texas. Interested applicants should contact Justin Havird (jhavird@utexas.edu) and provide a brief description of your research interests along with a current CV. Applicants are encouraged to consider applying for funding opportunities (e.g., NSF/NIH postdoctoral fellowships and the the Stengl-Wyer Postdoctoral Scholars Program at UT).

The University of Texas is located in Austin, TX, which is known for its high quality of life, environmental awareness, outdoor culture, and keeping it weird in general.

Justin C. Havird Department of Integrative Biology The University of Texas at Austin he/him/his

Princeton EvolutionaryBiology

The Department of Ecology and Evolutionary Biology at Princeton University has an open call for applications for two opportunities: the newly established Postdoctoral Initiative Program in ecology/behavior/evo-bio for postdoctoral or more senior research associates, and the 2021 EEB Scholars Program for current undergraduate juniors, seniors, and recent graduates.

1. Postdoctoral Initiative Program

We are interested in receiving applications from members of groups that have been historically underrepresented in ecology, evolutionary biology and related fields. Candidates who have demonstrated a strong commitment to remedying the historical underrepresentation of people of color in the areas of ecology, evolutionary biology and related fields through work promoting inclusion, equity, and diversity through teaching, advising, mentoring, advocacy, or public outreach are especially encouraged to apply. A description of the applicant's work in broadening opportunities in the field for underrepresented minorities should be included in the application.

Appointments will be made at the postdoctoral or more

senior research rank. Appointments are for one year, renewable annually based on satisfactory performance for a total of up to three years, and include a research fund.

The link for applying for the position can be found at <https://puwebp.princeton.edu/AcadHire/-apply/application.xhtml?listingId=20021>. Please note that the application deadline has been extended to September 30, 2021.

2. EEB Scholars

This is a graduate student-led initiative aimed at closing gaps in access to graduate programs for underrepresented minority students, including Black, Indigenous, and People of Color, in the fields of ecology and evolutionary biology. This program brings students from across the nation for a graduate school preview event comprising networking opportunities, professional development workshops, campus and facilities tours, and familiarization with the graduate school application process. EEB Scholars also aims to provide a safe space for minorities to discuss their experiences and challenges in academia. Application details can be found at this link: <https://eeb.princeton.edu/-graduate/eeb-scholars-program>. “Mary C. Stoddard” <mstoddard@princeton.edu>

does not need to include a detailed plan for the research that will be conducted during the Fellowship. The teaching statement should describe the candidate’s teaching philosophy, experience, and future teaching interests. The statement for diversity, equity, and inclusion should describe how the candidate will contribute to diversity, equity, and inclusion as a member of the Rice community, noting any relevant experience in this area if applicable. The application, along with contact information for three people who can provide letters of recommendation should be submitted at <https://apply.interfolio.com/91557>. Letters will be requested from a subset of candidates following initial review.

For further questions please contact Dr. Julia Saltz (julia.b.saltz@rice.edu), Search Committee Chair. Rice University is an Equal Opportunity/Affirmative Action Employer and values a diverse faculty. People from groups historically excluded from STEM are encouraged to apply.

Julia B. Saltz Associate Professor Biosciences at Rice University lab website: Saltzlab.com <<http://saltzlab.wordpress.com/>> twitter: @julia_saltz pronouns: she/her

Julia Saltz <julia.b.saltz@rice.edu> Julia Saltz <julia.b.saltz@rice.edu>

RiceU Texas Evolution

The BioSciences department of Rice University (<http://biosciences.rice.edu/>) seeks to fill a Faculty Fellow position in ecology and/or evolution. The position is a two-year appointment with a third year extension possible, with a tentative start date of January 1, 2022.

Our prestigious EEB Faculty Fellow Program aims to recruit outstanding postdoctoral researchers who merge excellence in teaching and research. Fellows receive faculty status, employee benefits, competitive salary, and research funds for independent or collaborative research. Collaborative interests with the existing faculty in the EEB research area are a plus.

Application review will begin August 23. The application will include a curriculum vitae, a statement of research interests, a statement of teaching interests, and a statement of contribution to diversity, equity, and inclusion. The research statement should outline the candidate’s research questions and motivation, previous work, and future plans. The research statement

RutgersU

TickGenomicsDiseaseSurveillance

The Price Lab within the Department of Entomology / Center for Vector Biology at Rutgers University seeks to fill an open Postdoctoral Associate position specializing in the evolutionary and molecular biology of ixodid ticks to carry out USDA-NIFA funded research focusing on surveillance of ticks and tick-borne disease, and molecular control mechanisms e.g., anti-tick vaccines.

This is a grant-funded position with an initial term of one year with possibility of multiple-year renewal.

The successful candidate will be an exceptional scientist with a strong track record of published research involving molecular and evolutionary biology, surveillance and ecology of hard ticks (Acari: Ixodidae). Candidates must have strong communication and interpersonal skills and a publication record consistent with the position. The successful candidate will be expected to integrate in two USDA-NIFA funded projects and lead both field surveillance and lab-based molecular analyses of field

ticks consistent with project aims.

Minimum Education and Experience: Requires a PhD in relevant area of Entomology, Acarology, Ecology, Immunology, or Veterinary Sciences focusing on ticks, tick biology and/or genome-oriented arthropod research.

Required Knowledge, Skills and Abilities: Preference will be given to candidates with prior experience spanning two major disciplines: (1) DNA/RNA extraction, handling, processing, next-generation library preparation and sequencing on Illumina and Oxford Nanopore platforms, associated bioinformatic analyses of sequence data, and (2) basic field techniques for tick collection and surveillance. The ability to communicate effectively with a wide variety of audiences including University personnel, state and local health departments, and the public is essential.

Equipment Utilized: The successful candidate will regularly utilize basic molecular laboratory equipment (pipettes, balances, agarose gel electrophoresis, PCR/qPCR instrumentation) in addition to varying bioinformatic tools pertaining to genomic research implemented on high-performance computing clusters. In addition, standard field equipment for tick collection will be utilized and the applicant must complete required Environmental Health safety training and Defensive Driving classes.

Physical Demands and Work Environment: Must be able to drive a University-owned vehicle, including pickup truck. Must be able to conduct outdoor field research under New Jersey summer weather conditions.

Work Overview: 40% Plan and conduct field surveillance of tick populations from urban and rural forest stands

40% Conduct laboratory (molecular) experiments involving hard ticks including but not limited to 1. pathogen testing and quantitation via qPCR, and 2. analysis of in-house generated next-generation genome and transcriptome data to further assess gene function and role in tick metabolism.

5% Keep record of work, analyze data, and create drafts of manuscripts for publication. Responsible for coherent documentation of experiments and surveys. A lengthy written and continually updated notebook is required.

5% Maintain equipment, keep inventory of supplies; maintain proper adherence to all health and safety protocols and regulations.

10% Training and mentoring of Rutgers undergraduate and graduate students.

For inquiries and further application information please contact Dr. Dana Price (d.price at rutgers.edu), search

committee chair. Please indicate “USDA Post-doc Position” in the subject line. Rutgers University is an Equal Opportunity Employer and values a diverse faculty. People from groups historically excluded from STEM are encouraged to apply.

“d.price@rutgers.edu” <d.price@rutgers.edu>

Senckenberg Biodiversity

Job announcement ref.#11-21018 The Senckenberg Gesellschaft für Naturforschung (SGN), a member institution of the Leibniz Association, with almost 800 employees and its headquarters in Frankfurt am Main, is conducting integrative natural history research with leading research institutions in six federal states. The Senckenberg Biodiversity and Climate Research Centre (SBiK-F) explores interactions between biodiversity and climate.

The working group of Prof. Thomas Müller at the Senckenberg BiK-F invites applications for a Postdoctoral researcher (m/f/d) in “Movement Ecology” (full time position)

We are seeking a candidate (m/f/d) with a strong background in quantitative ecology. You will join the team working on the “Nature 4.0 Sensing Biodiversity” project (<https://www.uni-marburg.de/en/fb19/natur40>). Research questions will revolve around movements of forest birds and mammals and could relate to animal behavior (e.g. activity patterns, navigation) as well as ecosystem functioning (e.g. herbivory or dynamic food webs). You will have the opportunity to develop your own research questions together with the team and will work with data emerging from an automatic radio tracking system as well as GPS tags. We expect a background in ecology and excellent programming skills in R. Experiences with movement analyses and management and programming/optimizing of large databases (e.g. MySQL or MariaDB) are advantageous. You will join an interdisciplinary and collaborative research team and we expect you to be highly motivated to collaborate with members of the Nature 4.0 team as well as lab members of the Movement Ecology group at SBiK-F (http://www.bik-f.de/root/index.php?page_id=1241).

Position requirements - PhD degree in ecology or a related field - Strong quantitative skills and programming skills in R - Experience in movement analyses and large databases preferred - Excellent publication record - Excellent oral and written communication skills

in English

Salary and benefits are according to a public service position in Germany (TV-H E 13, full time position). The contract should start no later than February 1st, 2022 and will be restricted to December 31st, 2022 (end of the project).

SGN supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The place of employment will be Frankfurt am Main, Germany. The employer is the Senckenberg Gesellschaft für Naturforschung (SGN).

You would like to apply? You are requested to send your application documents (a cover letter describing your motivation to apply, a detailed CV including a full publication list, full credentials/certificates and contact details of two academic references, as well as copies of your two most important publications), mentioning the reference of this job announcement (ref. #11-21018) until September 15th, 2021 by e-mail (attachment in a single pdf document) to recruiting@senckenberg.de or apply directly on our homepage via the online application form. For scientific enquiries please contact Prof. Dr. Thomas Müller: thomas.mueller@senckenberg.de.

<raphael.royaute@senckenberg.de>
<raphael.royaute@senckenberg.de>

Swedish MNH InsectDiversity

Dear all,

The Insect Biome Atlas (www.insectbiomeatlas.org) at the Swedish Museum of Natural History (www.nrm.se) is advertising two postdoc positions. IBA is a five-year international project aimed at characterizing the diversity of insects in Sweden and Madagascar. The project uses metabarcoding of thousands of Malaise trap and soil samples to study the size, origins, structure and function of the insect biomes and associated microbiomes.

We are looking for:

- 1) An applied *statistician / quantitative ecologist* with a keen interest in ecology, to work on joint species distribution models, community structure and species richness estimators using large datasets of insect community composition.
- 2) A *community ecologist* with a firm grip on quantitative methods, to work on phenological patterns of

insect species and address questions related to spatial variation in ecosystem functions.

The postdocs will have access to unprecedented datasets on insect community composition compiled through the metabarcoding of >8000 insect community samples collected over 12 months sampling in Sweden and Madagascar. The positions will be associated with the Swedish Museum of Natural History, in close collaboration with Tomas Roslin at SLU Uppsala and Ayco Tack at Stockholm University.

For enquiries, please contact Fredrik Ronquist (fredrik.ronquist@nrm.se); Andreia Miraldo (andrea.miraldo@nrm.se); Tomas Roslin (tomas.roslin@slu.se) and/or Ayco Tack (ayco.tack@su.se).

You can apply for the positions until the 22nd of September at www.nrm.se/vacancies Please forward to anyone that you think might be interested!

Best regards,

Andreia Miraldo

Project Manager/Researcher Department of Bioinformatics and Genetics Insect Biome Atlas *<https://insectbiomeatlas.org>* *Naturhistoriska Riksmuseet* SE i 1/2 V 114 18, Stockholm, Sweden Phone: + 46-(0) 8-51955118 Mobile: + 46-(0)70-1497322

andrea.miraldo@nrm.se

Andreia Miraldo <andrea.miraldo@googlemail.com>

TexasStateU HostPathogenDynamicsCoevolution

The Rodriguez Lab in the Dept. of Biology at Texas State University is seeking a Postdoctoral Scholar for a multi-year project investigating post-invasion dynamics of the amphibian-killing fungus via rapid genetic diversity assessments of both hosts and pathogens, which is funded by the National Science Foundation. The aims of this research are to: 1) perform real-time strain detection and sequencing to reveal pathogen diversity and geographic distribution along an equatorial transect including canopy habitats, 2) parse amphibian genetic identity in hyper-diverse assemblages to allow host-specific estimates of pathogen/strain prevalence, and 3) Use cophylogenetics/population genetics to test for the influence of host diversity on pathogen invasions. We are seeking independent and motivated candidates with

strong interests in herpetology, conservation genetics, bioinformatics, and disease ecology. The start date is negotiable and the expected term is two-years depending on yearly progress, but a term extension is possible. The position will remain open until filled.

The selected candidate will participate in real-time, in situ surveillance of *Batrachochytrium dendrobatidis* and measurements of amphibian diversity in Ecuador by leveraging emerging portable technology (nanopore sequencing and rt-PCR via magnetic induction cycling), and will drive the application of emerging genetic methodologies to address common challenges in wildlife disease ecology. The postdoctoral scholar is expected to lead their own research related to the project but also mentor and collaborate with undergraduates and graduate students from Texas State University on their research, and collaborate with junior and senior scientists and parabiologists from Ecuador. The postdoctoral scholar will also co-develop and lead one introductory bioinformatics undergraduate course (R for Biologists). Texas State University is a Hispanic-Serving Institution, thus the postdoctoral scholar will participate in the recruitment of underrepresented minorities interested in ecology and evolutionary biology. This position will also provide opportunities to learn tree-climbing techniques to access canopy habitats.

Required Qualifications: A Ph.D. in biology, evolution, ecology, or a related science field is required at the time of employment. Proven experience in field biology and molecular biology.

Preferred Qualifications: Knowledge of and/or expertise with some of the following: conservation biology, disease ecology, phylogenetics, population genetics, genomics, bioinformatics, and statistics. A record of publication in peer-reviewed literature. Bilingual (English and Spanish) candidates are encouraged to apply.

Application Procedures: Only applications submitted through the Texas State University website will be accepted and considered, <https://jobs.hr.txstate.edu/postings/35901>. To ensure full consideration, please submit the following materials by August 16, 2021: 1) a current curriculum vitae with contact information of 2-3 professional references; 2) a letter of intent that specifically addresses the qualifications noted in this posting 3) unofficial transcripts.

For inquiries, please e-mail Dr. David Rodriguez at drdz@txstate.edu. Please indicate "NSF Post-doc Position" in the subject line of all correspondence.

The selected candidate will be required to provide official doctoral transcripts.

Why Work at Texas State? Texas State University is

home to more than 38,000 students and 2,000 faculty members in the growing Austin-San Antonio corridor. A member of the Doctoral Universities: Higher Research Activity Carnegie classification, the university creates new knowledge, fosters cultural and economic development, and prepares its growing population of diverse students for the endless possibilities that await them as citizens of Texas, the nation, and the world. Bolstered by research with relevance and innovation in creative and scholarly work in a full range of academic disciplines and a spirit of inclusiveness, Texas State seeks outstanding candidates for a variety of faculty positions.

"Rodriguez, David" <drdz@txstate.edu>

UBath SocialSignals

Applications are invited for a postdoctoral researcher to join a team working to understand the evolution of greenbeard social signals. This NERC funded international collaboration will integrate mathematical modelling (population genetic and game theoretical approaches) with analysis of gene sequence evolution and experimental approaches to develop and test theories for how greenbeard loci evolve. The postdoc will work as a member of a research team with a broad array of expertise, providing opportunities to develop and combine a range of skills.

The successful candidate will be based in Jason Wolf's group in the Milner Centre for Evolution at the University of Bath, working in collaboration with Jean van den Elsen and Ben Ashby (in Bath) and Chris Thompson (at UCL). The candidate will also work with collaborators at University of São Paulo (Brazil).

The position is fixed-term of 24 months, with the possibility to extend to 27 months. Salary starts at £34,304. The start date is somewhat flexible, so please contact us to discuss possibilities if you are interested.

For further details, see the job listing in our recruitment system:

<https://www.bath.ac.uk/jobs/Vacancy.aspx?id=18855>

Please contact us for further information or with any questions (see the job listing for more contact details)

Jason Wolf <jbw22@bath.ac.uk>

(510) 642-1792 mnachman@berkeley.edu

“Prof. Michael Nachman” <mnachman@berkeley.edu>

UCalifornia Berkeley ConservationPopulationGenomics

Project Scientist in conservation and population genomics Nachman lab, UC Berkeley Details: <https://aprecruit.berkeley.edu/JPF03075> There is an opening for a Project Scientist to study conservation and population genomics of mammals as part of the California Conservation Genomics Project (CCGP) in the lab of Professor Michael Nachman in the Museum of Vertebrate Zoology at UC Berkeley. The California Conservation Genomics Project (CCGP) is a state-funded initiative with the goal of producing the most comprehensive, multispecies, genomic dataset ever assembled to help manage regional biodiversity. More information about this statewide effort can be found here: <https://www.ccgproject.org/>. This position will involve bioinformatic analysis of whole-genome sequences from 750 individual mammal specimens representing 15 species. The primary goal of this project is to generate a map of genetic diversity for these 15 species across California. We are also interested in inferring historical demographic changes, assessing the extent to which selection has shaped patterns of genomic variation, and linking genotype to phenotype for traits of interest. The ideal candidate will have a strong background in population, conservation, or landscape genomics and significant experience in the analysis of large genomic datasets.

Research in the Nachman lab (<https://www.nachmanlab.org/>) focuses on population, evolutionary, and ecological genetics and genomics. We are broadly interested in the genetic basis of evolutionary change, including the genetics of adaptation and the genetic basis of speciation. For example, we are interested in uncovering signatures of selection in patterns of DNA sequence variation and in linking specific genetic changes to specific adaptive phenotypes. Much of the current work centers on the genetic basis of adaptation to different environments. Our research utilizes a wide range of methods and approaches including field studies, genetic crosses in the laboratory, tools of molecular biology, genomics, and bioinformatics analyses of large datasets.

Michael Nachman Director, Museum of Vertebrate Zoology Professor, Department of Integrative Biology 3101 Valley Life Sciences Building University of California, Berkeley Berkeley, CA 94720-3160

UCalifornia Davis PopulationAdaptationGenomics

Postdoc in population/adaptation genomics. University of California Davis, Whitehead lab. Available immediately, remote work options will be considered.

Background Info: Research in the Whitehead lab (<https://whiteheadresearch.wordpress.com/>) focuses on evolutionary change in human-altered environments. We seek applicants for a Postdoctoral Research Associate to study population genetic change through space and time in Pacific herring. The causes of the collapse of the Prince William Sound (PWS) Pacific herring stock are controversial, and the reasons for the lack of recovery remain a mystery. We hypothesize that interactions between the 1989 Exxon Valdez oil spill and a subsequent viral epidemic were influential. We have collected whole genome sequences from ~1,300 individual fish from across Alaska and across time (four times spanning three decades), and throughout the rest of their range, to explore genomic change associated with the collapse and the period since; with these data we seek to explore and test hypotheses about the causes and consequences of the collapse, and test hypotheses about the genetic basis of parallel local adaptation. This huge population genomics dataset is ready for the right candidate to make rapid progress. Data are collected, and curated; we have a filtered variant data set where summary population genetics statistics have been estimated. Collaborations are in place with scientists in academia and with State and Federal agencies. The ideal candidate has experience in population genetics, statistical genetics, and computational biology. We are especially interested in candidates with a passion for open science and for connecting their work to decision makers, the public, and the broader conservation biology and evolutionary biology communities. There is funding for one year, with possibility of extension. We are open to the candidate working remotely. Our group is committed to creating a safe, inclusive, diverse, optimistic, and equitable work environment.

Responsibilities: Contribution to analysis strategy, code development, data analysis and interpretation, review of relevant literature, preparation of project reports and manuscripts for publication in peer-reviewed journals,

presentation at professional conferences.

Minimum qualifications: PhD in genetics, population biology, evolution, genome science, data science, or another relevant field.

Preferred qualifications: Preference will be given to applicants with 1) expertise in population genomics and computational biology; 2) strong communication and organizational skills; 3) can code in R and python and have an interest in transparent and reproducible science; and 4) strong publication records, or the potential for developing one. Our team believes in and values the power of diversity; candidates from groups that have historically been underrepresented in science are strongly encouraged to apply.

Salary: Commensurate with qualifications and experience.

Application: Interested candidates should submit:

a one-page cover letter, your CV, and names and contact information of at least three references familiar with your work.

Please submit materials to Andrew Whitehead (awhitehead@ucdavis.edu) with "Popgen Postdoc" in the 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 late spring and early summer 2021.

Email any questions to Andrew Whitehead (awhitehead@ucdavis.edu)

Andrew Whitehead, Ph.D. Department of Environmental Toxicology 4121 Meyer Hall University of California, Davis, CA 95616 530-754-8982 <tel:530-754-8982> <http://whiteheadresearch.wordpress.com/> Andrew Whitehead <awhitehead@ucdavis.edu>

undergraduate students.

UCR offers competitive salaries and comprehensive benefits (<https://graduate.ucr.edu/postdoctoral-studies>). Initial appointments are for one year (start date flexible), with possible renewal. Also, this position can be held remotely as long as the candidate is legally entitled to work in the United States for the duration of the appointment.

Requirements: Ph.D. in biology, evolutionary biology, genomics, or a related field Familiarity with Linux command line and genomic analyses Demonstrated record of scientific publications and independent research Strong communication skills Intermediate R programming skills

UCR is a world-class research university with an exceptionally diverse undergraduate student body. Its mission is explicitly linked to providing routes to educational success for underrepresented and first-generation college students. A commitment to this mission is a preferred qualification.

To apply: Please contact Kate Ostevik by email (kostevik@ucr.edu) with a single pdf that includes (1) a CV, (2) a one-page statement of research interests and experience, (3) contact information for two references, and (4) a preferred start date. A review of applications will begin on September 1st, 2021 and continue until the position is filled.

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.

"kostevik@ucr.edu" <kostevik@ucr.edu>

UCaliforniaRiverside EvolutionaryGenomics

The Ostevik Lab at the University of California, Riverside seeks to hire a postdoctoral scholar to conduct research in evolutionary genomics. The scholar will analyze RNA-seq data that has been generated to explore reproductive protein evolution in a pair of selfing and outcrossing plants. In addition, the scholar will have the opportunity to develop additional projects in the field of plant evolutionary genetics and to mentor

UCalifornia SantaBarbara EvolutionaryEpigenomics

Several postdoctoral positions are available in Soojin Yi's lab at UC Santa Barbara. Positions are available for a variety of themes. For an overview of our current research projects refer to the groups Research (<https://yilab.eemb.ucsb.edu/research>) and Publications (<https://yilab.eemb.ucsb.edu/publications>) pages. Below are two broad themes we are currently focused on.

Comparative Neurogenomics and Epigenomics: Postdoctoral positions are available to investigate human brain evolution using comparative genomic and epigenomic tools. Strong quantitative background and practical skills in bioinformatics are necessary.

Evolutionary Epigenomics: Scholars who are interested in pursuing epigenomic studies of nonmodel organisms are encouraged to apply. Our current interests include, but not limited to, insects, marine invertebrates, snakes, and birds. In other words, we have a lot of questions and ideas involving a variety of species and genomics/epigenomics methods.

Interested? Please send an inquiry to Soojin Yi (soojinyi@ucsb.edu). To apply include a cover letter indicating your scientific interests and why you are a good fit to the lab. Also, include your CV (with publication list) and the names of three references.

Soojin Yi <soojinyi@gmail.com>

have coevolved or mismatched genomes. Using this system, we want to test theories regarding mitonuclear coadaptation and also the Mother's Curse hypothesis.

The applicant should have a strong evolutionary biology background. They should also have skills in planning and executing large phenotypic experiments with *Drosophila*, including collection and analysis of data. The applicant will need an understanding of mitochondrial biology with particular interest in mitochondrial and nuclear interactions. Experience of genome-wide mapping and gene editing techniques are desirable as are bioinformatic skills in genome evolution. The candidate is expected to be an active member of the research team, assisting in the development of research plans and delivery of the overall project objectives.

The post is available to start from 01 November 2021. It is funded for 2 years in the first instance, with possibilities for extension, with salary of $\approx 36,028$ – $\approx 43,533$ per annum (inclusive of London allowance). A PhD in a relevant subject area (for example, evolutionary biology, genetics, genomics) is essential.

For informal enquiries about the post please contact Kevin Fowler / Florencia Camus at k.fowler@ucl.ac.uk / f.camus@ucl.ac.uk. The project team includes Flo Camus, Kevin Fowler, Max Reuter, Nick Lane and Richard Mott.

Closing date for formal applications is 06 September, via https://atsv7.wcn.co.uk/search_engine/jobs.cgi?SID=amNvZGU9MTg3NzcwOCZ2dF90ZW1wbGF0ZT05NjUmb3duZXI9NT. If you have any queries regarding the application process please contact Biosciences staffing on biosciences.staffing@ucl.ac.uk quoting the vacancy reference number: 1877708.

“Fowler, Kevin” <k.fowler@ucl.ac.uk> “Fowler, Kevin” <k.fowler@ucl.ac.uk>

UCollegeLondon MitonuclearCoevolution

Job: Postdoctoral researcher in Mitonuclear coevolution.

Applications are invited for a postdoctoral researcher to join a project in the Department of GEE, UCL on mitochondrial genetics. The project examines the evolutionary consequences of mito-nuclear interactions using *Drosophila melanogaster* as a model species. We have created a large panel of 81 mito-nuclear genotypes, which

UGeneva ModellingPaleogenomicData

Postdoc position available at the University of Geneva

A postdoctoral position in computational modelling of paleogenomic data is available at the Laboratory of Anthropology, Genetics and Peopling history (AGP lab) of the University of Geneva (Switzerland). This postdoctoral research will be under the supervision of Dr Mathias Currat (<http://ua.unige.ch/en/personne/>-

mathiascurrat/) and is part of the Swiss NSF project “Paelogenomic investigation of the evolution of European populations using computational simulations” (<http://p3.snf.ch/Project-182577>). The postdoctoral project will consist in the simulation of ancient genomic data under various evolutionary models using an original computational method developed in the lab and the comparison with observed patterns. The primary tasks will consist to adapt the existing modelling framework to the specific questions of the project, to perform analyses and to write papers. The main aim is to investigate the influence of hybridisation with extinct hominids on the evolutionary history of modern humans. We are seeking a highly motivated person with a strong interest in human evolution, population genomics and computer tools. The successful candidate will belong to an interdisciplinary research group, which is part of an international network of research including leading ancient

Requirements: PhD degree in biology or equivalent; Skills in population genetics, biostatistics, bioinformatics and English; Skills in computational modelling; Skills in R and Bash scripting; Collaboration and communication abilities.

Terms of employment: Duration: 12 months; Start: the position is available from Autumn 2021. Salary: SNSF salary scale for a postdoc.

Other conditions: The postdoctoral researcher will participate in teaching and other activities of the AGP Lab.

About the AGP lab The AGP lab is part of the Department of Genetics and Evolution at the University of Geneva, Switzerland. It is located in the Science campus in the heart of the city of Geneva. It offers a very stimulating scientific environment with several independent groups of research, international collaborations and excellent computer resources. Both French and English are the working languages in the lab. More details about the research group may be found at <http://ua.unige.ch/en/-personne/mathiascurrat/> How to apply Applications should be sent as a single pdf file by email to Dr Mathias Currat (mathias.currat@unige.ch) by September 15, 2021. It should include a cover letter, a detailed CV, a one page research statement. At least two letters of recommendation will be requested from candidates selected for interview. Please include the details of your references in your cover letter.

Mathias Currat <Mathias.Currat@unige.ch>

ULiverpool DrosophilaNutritionLifehistory

We are seeking an individual to work on *Drosophila* nutrition and life-history, to join the group of Dr Stuart Wigby (University of Liverpool), as part of a BBSRC-funded project. You will examine the effects of nutrition on male fertilisation success and ageing. This will involve fly experiments, integrating precision-nutrition methods with assays of male fertility, sperm metabolism, and seminal fluid proteomics, across male ages. A PhD in biology is essential, as is expertise in relevant experimental and analytical approaches.

Experience of large-scale experiments in *D. melanogaster* or similar systems is required, and experience in - or willingness to learn - sophisticated statistical analysis of large multidimensional datasets is desirable, though training will also be given. You will be based in Dr Wigby’s group in Liverpool, but will interact closely with the Centre for Proteomics Research at Liverpool, led by Professor Claire Eyers, Dr Juliano Morimoto’s group at the University of Aberdeen, and collaborators Dr Matthew Piper (Monash University) and Professor Stephen Simpson (University of Sydney). Sperm metabolism work will be conducted via a short-term research visit to the Technische Universität Dresden, in the lab of Professor Klaus Reinhardt.

The post is available from 1 February 2022 until 31 January 2025

Application deadline 3rd September 2021

Informal enquiries to s.wigby@liverpool.ac.uk

<https://www.jobs.ac.uk/job/CIF449/postdoctoral-research-associate-in-drosophila-nutrition-and-life-history> Note - a technician position on this project will also be advertised shortly

“Wigby, Stuart” <S.Wigby@liverpool.ac.uk>

UMichigan ComparativeGenomicsFungi

The James Lab at the University of Michigan (www.umich.edu/~mycology) is seeking a postdoctoral fellow in comparative genomics of fungi. Research will involve the analysis and generation of genomes and transcriptomes from uncultivated single cells, metagenomes, and cultured fungi. Scientific areas of interest are: reverse ecology using genomic sequences, phylogenomics and horizontal gene transfer, host specificity, and host-pathogen interactome.

The primary study system is the marine yeast *Malassezia*, a ubiquitous but uncultivated component of the numerous marine habitats. This project is funded by the Gordon and Betty Moore Foundation and is a collaboration with Anthony Amend (U. Hawaii), Amy Gladfelter (U. North Carolina), and Ashleigh Theberge (U. Washington) with the aim of developing *Malassezia* as a model marine fungal system for studying symbiosis. This position will also work at the intersection of multiple projects ongoing in the lab including projects on chytrid parasites of algae, amphibian-chytrid symbiosis, and mycoviruses of early diverging fungal lineages.

The ideal candidate will be well-versed in bioinformatics with experience using and creating analytical pipelines for answering biological questions with 'omics data. Interest and knowledge in fungal or microbial systems is desired. Applicants may be involved with lab or field work depending on experience. Opportunities for mentoring undergraduates or research assistants will be provided. Ideal start date is by the end of 2021 and review of applications will begin immediately and close on Sept. 15. The initial appointment is for one year with a possibility of extension to a second year pending performance review.

Our lab pursues diverse projects in fungal biology and embraces diverse perspectives and backgrounds in STEM. The lab is in the Department of Ecology and Evolutionary Biology (<http://www.eeb.lsa.umich.edu/-eeb/index.html>), an intellectually stimulating environment in a vibrant college town (Ann Arbor, MI).

Interested applicants should email Tim James (tyjames@umich.edu) with a CV, cover letter, and the names and contact information of three references.

Tim James (he/him) Dept. of Ecology and Evol. Biol.

ogy University of Michigan

“tyjames@umich.edu” <tyjames@umich.edu>

UMinnesota PlantEvolutionaryGenetics

Location: University of Minnesota, Department of Agronomy and Plant Genetics, St. Paul, MN

Research Area: Population Genetics and Genomics

Do you want to contribute to improving food and nutrition security in the face of climate change?

We are seeking a Postdoctoral Research Associate in population genetics and genomics to work on an FFAR-funded project that seeks to increase thermotolerance in cowpea, an important legume crop. The successful candidate will conduct a diverse set of activities, including environmental association, resequencing and annotation, and evaluation of homologous genes in related species. The successful candidate will be part of a multidisciplinary team of scientists at the University of Minnesota, Colorado State University, University of Florida, University of Leon (Spain), and the International Institute of Tropical Agriculture (Nigeria). There will be opportunities for domestic and international travel.

There are also opportunities to improve biocomputing skills through tutorials hosted by the Minnesota Supercomputing Institute <https://www.msi.umn.edu/-tutorials> and the Biocomputing Discussion Group <https://morrelllab.github.io/compute/>. On the St. Paul campus, there are several faculty with research programs in genomics (including Candy Hirsch, Gary Muehlbauer, and Nathan Springer) and evolutionary genetics (including Yaniv Brandvain, Suzanne McGaugh, David Moeller, Ruth Shaw, and Peter Tiffin).

Qualifications: PhD in evolutionary, population, or quantitative genetics, plant breeding, or related field. Proficiency in UNIX shell, Python, or other programming languages is preferred. A demonstrated ability to publish original research in peer-reviewed journals is preferred. Basic molecular biology skills, including DNA extraction and PCR, are preferred.

To apply, send a cover letter and curriculum vitae to Peter Morrell (pmorrell@umn.edu) and Maria Munoz-Amatriain (maria.munoz_amatriain@colostate.edu). Review of applications will begin on 15 September 2021 and continue until the position is filled.

“pmorrell@umn.edu” <pmorrell@umn.edu>

UNewHampshire EcologyEvolution

The Garnas lab (<http://mypages.unh.edu/garnaslab>) seeks a highly motivated postdoctoral scholar to address basic and applied questions related to beech bark disease in eastern North America. A successful project will focus on eco-evolutionary feedbacks of relevance to the scale insects and multiple fungi associated with this disease, including feedbacks mediated by host tree response. Other elements of the project will be of the postdoctoral scholar's own design. Candidates focused on conceptual or theoretical approaches to understanding complex dynamics and community feedbacks in ecological systems are also encouraged to apply.

Applicants must have a Ph.D. in a related field and a strong interest in field ecology and evolutionary biology as well as in applying molecular, histological, or theoretical tools to natural (non-model) systems.

For an example of current work on this topic from our lab, please see: <https://www.frontiersin.org/articles/10.3389/fgc.2021.673099>. The University of New Hampshire and the Department of Natural Resources and the Environment are home to a vibrant community of productive researchers with a strong commitment to student success. Located in the town of Durham, UNH is a beautiful campus surrounded by forest and natural landscapes and is less than 30 minutes from the ocean and 90 minutes from the White Mountains. Outdoor and other recreational activities abound.

Interested applicants must apply via the university employment site: <https://jobs.usnh.edu/postings/42283>. Review of applications will begin on 8/16/2021 but will continue until the position is filled. The preferred start date is October 1, 2021. Funding is available for up to two years.

Apologies for the short turnaround and for any cross-postings. Questions can be directed to garnaslab.recruiting@unh.edu.

Jeff Garnas <jeff.garnas@unh.edu> Jeff Garnas <jeff.garnas@unh.edu>

UNorthCarolina Charlotte CnidarianDiversity

A Postdoctoral Researcher position is available to study genetic diversity of a coastal cnidarian (*Nematostella vectensis*) and its viruses in the lab of Adam Reitzel at the University of North Carolina at Charlotte.

Work in the Reitzel lab is focused broadly on the ecology and evolution of marine invertebrates, particularly cnidarians. For this NSF-funded position, we are seeking a post-PhD candidate to analyze the genomic diversity of anemones from different locations, the variation in viral communities, and adaptation of anemones to biotic communities.

This work involves field experiments in the United States as well as laboratory studies at UNC Charlotte. This project is a collaboration with Dr. Yehu Moran (Hebrew University of Jerusalem, Israel). Successful candidates for this position will need to have demonstrated experience in the generation and analysis of short read Illumina data. Experience with long read data (PacBio, Oxford Nanopore) and metagenomics is desirable. The selected candidate will have the opportunity to explore independent research directions during their time that contributes to a broader understanding of viruses associated with this species. The selected candidate will also have the opportunity to co-mentor undergraduate and graduate students.

Candidates

Applications are encouraged from individuals who have a Ph.D. in Biology, Bioinformatics, or related disciplines, with experience in genome/transcriptome sequencing, viruses, and/or metagenomics. Top candidates will have a strong track record of research productivity and interest in collaborative science.

Candidates should apply at the following site: <https://jobs.uncc.edu/hr/postings/36340>. Your application should include a cover letter, a curriculum vitae, a one-page statement describing your research interests and goals, and names and contact details for three references.

Start Date and Project Duration

The start date is ideally on or before November 1 but applications will be evaluated until the position is filled. Initial application review will begin on September 10. The position is funded for up to three years dependent

on progress.

Contact for additional information:

Adam Reitzel (he/him) Department of Biological Sciences University of North Carolina at Charlotte Charlotte, NC 28223 Email: areitze2@uncc.edu Web: <https://sites.google.com/site/thereitzellab/> Adam Reitzel <areitze2@uncc.edu>

UOttawa ConservationAndClimate

Postdoctoral Researcher: Integrating climate microrefugia into networks of protected and conserved areas

We seek to recruit a motivated postdoctoral researcher to join a collaborative effort between the University of Ottawa (Ottawa, Canada) and Environment and Climate Change Canada to better understand how to integrate climate microrefugia into networks of protected and conserved areas. The researcher will play a key role in this collaboration, developing a framework and applying methods to provide guidance for biodiversity conservation, including Species at Risk recovery planning. The objectives of the project are to: (1) identify climate-vulnerable species dependent on microrefugia, (2) develop a framework to guide the identification of climate microrefugia in climate-informed conservation planning, and (3) develop guidance on the integration of climate refugia into planning frameworks. The researcher will be mentored by Dr. Heather Kharouba (University of Ottawa, Canada) and Dr. Ilona Naujokaitis-Lewis (Environment Climate Change Canada) and there will be opportunities to work with a diverse set of other collaborators. The location of the position is flexible with remote work possible.

The position is available to be filled as early as September 2021 with a preferred start date no later than October 1, 2021 and is expected to be of 18 months duration, with potential extension to 2 years. Renewal after the first year is contingent upon performance.

Qualifications include: a Ph.D. in ecology, natural resource sciences, conservation biology, or a related field; evidence of publishing in peer-reviewed publications; experience in ecology, one or more aspects of biodiversity conservation, climate change/global change ecology; strong quantitative and computational skills (statistics, GIS, R, github); and excellent communication abilities.

Canadian and international applicants are welcome. The Kharouba and Naujokaitis-Lewis labs are committed to

an equitable, diverse and inclusive research environment. Underrepresented groups are encouraged to apply.

Review of applications are underway and will continue until a suitable candidate is found. Applicants should send the following: (1) A cover letter that briefly indicates how the applicant meets the criteria, and includes a brief short statement of research interests; (2) Curriculum Vitae; and (3) Names and email addresses of three references. Please send application, and informal inquiries about the position, to Dr. Heather Kharouba (heather.kharouba@uottawa.ca).

Heather Kharouba (she/her/elle) Associate Professor Department of Biology University of Ottawa website: kharoubalab.weebly.com

“kharouba@gmail.com” <kharouba@gmail.com>

UOulu BiodiverseAnthropocenes

Biodiverse Anthropocenes program of the University of Oulu, Finland (<https://www.oulu.fi/en/biodiverse-anthropocenes>) is very pleased to announce that it is now seeking to hire two Postdoctoral Researchers (3-year positions).

Deadline: 20 September 2021 at midnight (Finnish time).

The positions are aimed at candidates from across multiple disciplines (and in particular they encourage transdisciplinary scholarship) spanning a range of research focuses, including biodiversity genomics, human-environment relations, geographies and sustainability.

We hope to encourage outstanding, ambitious scholars to apply for these jobs. And do please feel free to share word of these positions among your colleagues and with your networks.

For more information, see: http://rekry.saima.fi/-certiahome/open_job_view.html?did=5600&lang=en&id=000011778&jc=1 Marko Mutanen

Marko Mutanen <Marko.Mutanen@oulu.fi>

USouthCarolina PlantEvolutionaryGenetics

The Wessinger lab in the Department of Biological Sciences at the University of South Carolina is recruiting postdoctoral researchers to study plant evolutionary genetics (of penstemons). Potential research projects are focused on the parallel evolution of complex traits, including investigating the contribution of adaptive introgression to parallelism, comparative studies of the genetic and genomic basis of complex trait divergence, and population genetic processes that maintain complex trait differences between closely related species that hybridize. For more information about our lab's research and study system, see our website: wessinger-lab.github.io. Successful candidates will have opportunities to develop independent research directions and will contribute to mentoring undergraduates in the lab. Funding is available for up to four years, subject to annual review, with a flexible start date.

The EEB group at U of SC is an interactive, supportive, and collaborative community with several new and growing labs. U of SC is located in beautiful Columbia, SC. Columbia is a diverse and affordable small city with a vibrant downtown, wonderful climate, and easy access to outdoor activities.

Applicants should have a PhD in evolution, genetics, or a related field; peer-reviewed publications; experience in research mentoring; experience working with genomic data; and demonstrated skills in experimental design, data management, and data analysis. Expertise in any or all of the following is preferred: population genomics, phylogenomic analyses, quantitative genetics, population genetic modeling, statistics, and/or fieldwork. We are committed to building a diverse research team and encourage applications from members of historically excluded groups in STEM.

Interested individuals should contact Carrie Wessinger by email (wessinc@mailbox.sc.edu) with a CV and statement of interest. Inquiries will be considered until the positions have been filled.

“Wessinger, Carolyn” <WESSINC@mailbox.sc.edu>

USouthernMississippi MarineEDNA

A postdoctoral position is available in marine environmental DNA (eDNA) research in the School of Biological, Environmental, and Earth Sciences at the University of Southern Mississippi. The candidate will design novel species-specific eDNA assays for marine fishes of interest and conduct eDNA fieldwork and lab analysis. The candidate will compare resultant data with those acquired via other approaches to assess the efficacy of eDNA methodologies to assess the presence and relative abundances of marine target species. The successful candidate will be highly motivated and have the ability to work independently. Funding is available for two years; continuation in the second year is contingent upon satisfactory performance and progress during the first year.

Primary Duties and Responsibilities

1. Work closely with PI and the multi-institutional research team to plan, design, and execute field and lab research activities.
2. Lead eDNA fieldwork, which will include water sampling and filtration in coastal and offshore marine waters. Fieldwork will require travel.
3. Design species-specific multiplex Droplet Digital PCR (ddPCR) assays. Lab analysis of eDNA samples, including DNA extractions, ddPCRs. Maintain a detailed laboratory notebooks and data records. Prepare reports and peer-reviewed publications.
4. Data analyses, which may include limits of quantification, detection probabilities, relative abundance estimates, and/or eDNA particle tracking models.
5. Train and mentor graduate and undergraduate students in the lab.
6. Performs other duties as assigned.

Minimum Qualifications

* Ph.D. degree in Biological Sciences (Ecology, Genetics, Marine Science, or a related field). * Demonstrable record of publishing scientific papers in peer-reviewed journals. * Knowledge of marine fish biology, ecology. * Proficiency with Microsoft Office.

Knowledge, Skills & Abilities Ability and willingness to conduct marine fieldwork in hot, cold, or rainy condition and lift 40 lbs repeatedly during fieldwork activities. Meticulous attention to detail; ability to follow rigorous methodological protocols, work independently and multi-task. Excellent teamwork and communication skills in a diverse lab group.

Preferred Qualifications Demonstrable experience conducting marine eDNA research, developing novel multiplex and/or species-specific PCR assays, and competency with R and/or python. Strong background in molecular ecology or population genetics in terms of theory and lab techniques. Proficiency with primer/probe design, qPCR, and/or ddPCR.

Special Instructions to Applicants Review of applicants will begin September 7 and the position will remain open until filled. Applicants must submit: 1) a cover letter detailing qualifications and relevant experience, 2) CV, 3) a statement of research interests (not to exceed 2 pages), and 4) names and contact information for three references. Application link: <https://usm.csod.com/-/ats/careersite/JobDetails.aspx?id=2138&site=1> About The University of Southern Mississippi The University of Southern Mississippi (USM) is a comprehensive public research institution delivering transformative programs on campuses in Hattiesburg and Long Beach, at teaching and research sites across the Mississippi Gulf Coast, as well as online. Founded in 1910, USM is one of only 131 universities in the nation to earn the Carnegie Classification of Institutions of Higher Education's "R1: Doctoral Universities - Very high research activity" designation, and its robust research enterprise includes experts in ocean science and engineering, polymer science and engineering, and large event venue safety and security, among others. USM is also one of only 37 institutions in the nation accredited in theatre, art and design, dance and music. As an economic driver, USM generates an annual economic impact of more than \$600 million across the state. USM welcomes a diverse student body of more than 14,000, representing 71 countries, all 50 states, and every county in Mississippi. USM students have collected four Truman Scholarships and 37 National Science Foundation Graduate Research Fellowships, while also leading Mississippi with 27 Goldwater Scholarships, an honor that recognizes the next generation of great research scientists. Home to the Golden Eagles, USM competes in 17 Division I sports sponsored by the National Collegiate Athletic Association (NCAA). For more information, visit www.usm.edu. As an Affirmative Action/Equal Employment Opportunity employer/Americans with Disabilities Act institution, The University of Southern Mississippi encourages minorities, women, veterans and persons with disabilities to apply.

Nicole Phillips

Associate Professor

The University of Southern Mississippi



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UTurku EvolutionDisease

University of Turku, Faculty of Science, Department of Biology, invites applications for

POSTDOCTORAL RESEARCHER (Infectious DiseaseEpidemiology)

Appointment Specification

Fixed-term position begins ideally on 1st of October 2021 and in 24 months is due to completing the tasks relating to the NORDEMICS project funded by Nord-Forsk (2021-2024) and coordinated at the Department of Biology, the Ecology Division.

The working place is in the Lummaa Group (<https://human-life-history.science/>) and the postdoctoral position is embedded in an interdisciplinary network of epidemiologists, ecologists and social scientists with Prof. Lone Simonsen at Roskilde University (Denmark), with Prof. Nils Chr. Stenseth at the University of Oslo (Norway) and with Prof. Tommy Bengtson at Lund University (Sweden).

A six (6) month trial period applies to the position.

The duties

The duties of the Postdoctoral researcher include a) collecting and validating historical demographic and epidemiological records, b) analysis of the socio-demographic and environmental factors that affect the epidemic dynamics of childhood infections in historical populations, c) statistical quantification of epidemic dynamics of childhood infections, d) mathematical modelling of epidemic dynamics using SIR models and e) writing up and presenting results for scientific journals and at interdisciplinary scientific meetings. The tasks will be specified together with the department staff.

A maximum of 10 % teaching duties (lectures and supervising undergraduate and graduate students) is included in working time of the position without separate compensation.

A good applicant for this post has:

experience with collecting and validating historical data
experience with advanced statistical methods such as

generalized linear and additive models, wavelet and travelling waves analyses

experience with and enthusiasm for epidemiological modelling such as S(E)IR models

excellent computer and (R-)coding skills

enthusiasm and ability for interdisciplinary research that covers biology, epidemiology, historical and social sciences

excellent academic writing and communication skills in English

excellent collaboration skills in a vast interdisciplinary research network across the Nordic countries, Europe and the United States.

Formal qualifications

A person selected for the post must possess a doctoral degree in Biology, Epidemiology or related discipline with the above-described qualifications. Persons appointed must have successfully completed their doctoral degree by the end of the application period.

Salary

The salary for the post is determined in accordance with the university salary system for teaching and research personnel. The task specific salary component for the postdoctoral researcher is 3 000,49 euros per month (according to level 5 of the job demands chart). In addition, a personal work performance component will be paid. The personal work performance component is 6-50% of the task specific salary component. Salary for this position will be in between 3180,52 - 3510,57 euro .

Applications

Applications are submitted to the Faculty of Science. Applications must include:

- 1) A curriculum vitae
- 2) An academic portfolio in accordance with the university practice <https://www.utu.fi/en/university/come-work-with-us/academic-portfolio>
- 3) A list of the applicant's scientific publications
- 4) Motivation letter
- 5) Other documents that can be relevant for filling the post

Applications must be submitted by Monday 6th of September 2021 (23:59), using the electronic application form of the University of Turku on the following address: <https://www.utu.fi/en/university/come-work-with-us/open-vacancies> The link to the application system is at the beginning of this announcement (Apply for the job).

Enquiries

For the position, please contact Professor Virpi Lummaa, email: [virpi.lummaa\(at\)gmail.com](mailto:virpi.lummaa(at)gmail.com) or dr. Michael Briga, email: [michbriga\(at\)gmail.com](mailto:michbriga(at)gmail.com)

For questions related to the application process, contact HR specialist Kaisa Ketomäki ([kaisa.ketomaki\(at\)utu.fi](mailto:kaisa.ketomaki(at)utu.fi)).

Michael Briga <michbriga@gmail.com>

UWindsor StressResponseChips

Drs. Daniel Heath (University of Windsor) and Kenneth Jeffries (University of Manitoba) have an opening for a Post-Doc to assist in the development of the GEN-FISH Stress-response Transcriptional Profiling (STP) chip-a suite of quantitative gene expression assays to assess fish health and responses to environmental stressors. The Post-Doc will coordinate with P.I.s, graduate students, lab managers, and industry professionals from collaborating institutions to develop a robust collection of cDNA, tissue samples, and transcriptomic sequence data for the STP-chip design, testing, and validation.

Candidates are required to have a PhD in Biology or related field, extensive experience with bioinformatic analyses, and practical knowledge of R-based software use. Lab experience with qRT-PCR and RNA-seq analysis is preferred. Exceptional attention to detail, organization, and time-management skills with a track record of success in managing multiple projects and deadlines are essential qualities for this position. A full summary of the functions and duties of the position can be found on our website: <https://gen-fish.ca/post-doc-position/> . Applicants are asked to send an updated CV, representative publications, a cover letter and/or statement describing the candidate's past experience and accomplishments, interests (generally and with respect to the specifics of this position), and the names and e-mails of at least two references. These materials should be combined into a single pdf document and sent to Dr. Jeffries (Ken.Jeffries@umanitoba.ca).

The Heath and Jeffries labs are committed to increasing gender, ethnic, disciplinary, and cultural diversity. They aim to promote equity, diversity, and inclusion within our field of research in Canada.

The position is expected to start as soon as possible, September 2021. We will review applications as they arrive, beginning August 2021.

Paige Breault (she/her) GEN-FISH Communications Coordinator Great Lakes Institute for Environmental Research University of Windsor

Paige Wilson <Paige.Wilson@uwindsor.ca>

UWisconsin Milwaukee KelpGenomics

The Department of Biological Sciences at the University of Wisconsin-Milwaukee (UWM) is currently accepting application submissions for a postdoctoral appointment in Dr. Filipe Alberto's laboratory.

The postdoctoral fellow will work on population genomics analysis of large brown algae (kelps). The Alberto lab is currently applying genomic analysis to the conservation and breeding of giant (*Macrocystis pyrifera*) and bull (*Nereocystis luetkeana*) kelps in the northeast Pacific.

The successful candidate will have a strong bioinformatics background to tackle large data sets of WGS sequenced individuals. We are looking for someone with demonstrated experience (as evidenced by publications and letters of reference) in at least two of the following broad topics: differential expression analysis from RNA-seq experiments; analysis of large sets of WGS data mapped to an annotated reference genome, including characterization of genomic regions under selection, demographic and seascape genomics analysis; simulation and analysis of population genomics data sets, genomic analysis of epigenetic variation. The candidate should be familiar with UNIX operating systems (e.g., Linux), bash scripting, and program in at least one programming language, preferably Python or R, with AWK scripting an appreciated addition.

Applicants are required to have a Ph.D. in evolutionary ecology, plant breeding, population genetics/genomics, or genetics.

The postdoctoral fellow will have the opportunity to collaborate with our extended network of partners, including but not limited to, the following groups, Bob Miller and Dan Reed from UCSB, Sergey Nuzhdin from UCS, Pete Raimondi from UCSC, Scott Lindell and Charles Yarish from WHOI, the Puget Sound Restoration Fund team, The Nature Conservancy California Oceans team, and the California Conservation Genomics consortium.

Informal inquiries about our projects are encouraged.

Please apply by sending a single pdf document, including

1. CV,
2. a declaration of research interests,
3. previous experience and fit for the position, and
4. the email address and telephone number of three potential contacts for reference letters.

Applications should be emailed to Dr. Filipe Alberto, albertof(at)uwm.edu. The initial contract will be for one year with a possible extension to one additional year.

The review of applications starts on September 16, 2021, and will continue until the position is filled. The position is expected to start as soon as possible.

UW-Milwaukee is an AA / EEO employer strongly committed to maintaining a climate supporting equality of opportunity and respect for differences based on gender, culture, ethnicity, disability, sexual orientation, marital status, race, color, religion, national origin or ancestry, age and lawful activities.

For more information about the lab see: <http://alberto-lab.blogspot.com/> . UWM has an active group of researchers studying evolutionary ecology and behavior:

<https://uwm.edu/biology/research/ecology-evolution-and-behavior/> Filipe Alberto Associate Professor

Dept. of Biological Sciences University of Wisconsin - Milwaukee 3209 N. Maryland Ave. Milwaukee, WI 53211

URL: <http://alberto-lab.blogspot.com/> URL: <http://-giantkelpbreeding.com> Email: albertof@uwm.edu Tel: 414-251-8262

Filipe AOs Alberto <albertof@uwm.edu>

UZurich MicrobiomeInsectReproduction

Postdoc: Microbial effects on host reproduction

We are looking for a postdoctoral researcher to join our group at the University of Zurich for an SNSF-funded project (2 years) examining microbial effects on the reproductive function of insects, particularly *Drosophila*. This project will combine ambitious fly experiments with microbiota characterization and manipulation and a variety of assays of reproductive function, including sperm quality and seminal fluid proteome.

A PhD in biology is required to be considered for this position. An good applicant additionally has:

- experience working with insects
- expertise in host-microbiome interactions
- ideally some experience with proteomics or similar analyses
- ability to manage large datasets
- excellent analytical and scientific communication skills in English
- ability to work in a team, including local and international collaborators

Preferred start in January 2022. Funding is available for two years.

To apply, please send your documents (CV, statement of motivation and research interests, and contact information for three people who can provide letters of recommendation) to stefan.luepold@ieu.uzh.ch. Application review will begin on 10 September 2021.

Stefan Lupold SNSF Professor Department of Evolutionary Biology and Environmental Studies University of Zurich

http://www.ieu.uzh.ch/en/staff/member/-luepold_stefan.html <http://www.lupoldlab.net> “stefan.luepold@ieu.uzh.ch” <stefan.luepold@ieu.uzh.ch>

several positions available starting Fall of 2021. Projects include:

1) Ecological genomics and pollinator health: Our group is leading a national initiative called BeeCSI (<https://-beecsi.ca/>) to identify stressor specific biomarkers for use in pollination conservation. We are looking for a postdoctoral fellow with experience in transcriptomics and interest in bee biology to participate in both wet-lab and bioinformatic components of this research.

2) Comparative population genomics of eusocial insects: We are looking for a postdoctoral fellow to study the relationship between genome evolution and social evolution using population genomic datasets on a large number of insects that vary in their social organization.

Starting Salary: \$55,000 per year

Qualified candidates are encouraged to submit their CV to Amro Zayed (honeybee@yorku.ca).

In addition to the honey bee lab, York University is home to the Center for Bee Ecology, Evolution and Conservation (BEEc, <https://bees.yorku.ca>). Successful candidates will have a chance to interact with the diverse faculty, fellows and students at BEEc, and participate in BEEc activities and training initiatives.

Ida Conflitti <iconflitti@gmail.com>

iconflitti@gmail.com

YorkU Canada EcolEvolutionaryGenomics

The honey bee lab (www.yorku.ca/zayedlab) at York University's Dept. of Biology (Toronto, Canada) has

WorkshopsCourses

Ingelheim Mutualism Oct8	81	Online MetabolomicsInR Nov1-4	83
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Ingelheim Mutualism Oct8

Dear Colleagues,

There are still some limited slots available to participate on-site and present a poster at our Gutenberg Workshop “The Rise and Fall of Mutualisms” in Ingelheim, Germany! Please register asap and submit a poster abstract, if you would like to attend in person. After the maximum number of people allowed due to the Covid regulations is reached, I will have to decline further registrations and defer them to online participation. Registration for online participation (livestream and chat) will still be possible until Oct 8. You can find additional information on the workshop and how to register here: <https://gutenberg-workshops.uni-mainz.de/rise-and-fall-of-mutualisms-oct-2021/> I am really excited about having this workshop in a hybrid format!

Best wishes, Martin

Prof. Dr. Martin Kaltenpoth Director Department of Insect Symbiosis Max Planck Institute for Chemical Ecology Hans-Knöll-Str. 8 07745 Jena Email: kaltenpoth@ice.mpg.de

Martin Kaltenpoth <kaltenpoth@ice.mpg.de>

Online DNA Skills Sep13-Dec5

PDNA-7001-FA Virtual DNA Skills Training Course:

The Virtual DNA Skills Training Course is designed to teach participants the fundamentals of molecular techniques including DNA extraction, amplification (using PCR), sequencing and interpretation. This non-credit course is offered as an online virtual course.

The cost of the online virtual training course is \$600.00 CDN.

The next scheduled time for the Virtual DNA Skills Training Course is: September 13 to December 5, 2021.

For more information please contact us at 807-343-8010 ext. 8616 or email paleodna@lakeheadu.ca or visit our website at www.ancientdna.com and click on 'Training Courses'.

Thank you.

Karen.

Karen Maa Administrative Assistant Lakehead University Centre for Analytical Services (LUCAS) 955 Oliver Road Thunder Bay, ON P7B 5E1

Karen Maa <kmaa@lakeheadu.ca>

Online EmergingViralThreats Sep6-10

Few spots are still available for the course

Emerging viral threats in a globalized society: molecular, epidemiological, clinical and social aspects of emerging viral diseases

ONLINE COURSE - One-week interdisciplinary online course on emerging viral infectious diseases.

This online course includes lectures on SARS-CoV-2, mammalian-borne emerging viruses and arboviruses, coupled with practical sessions on the analysis of genomic and meta-genomic data through state-of-the-art bioinformatic approaches. A session on scientific communication with David Quammen (author of spillover) will conclude the course. Lecturers include world-wide experts in vaccines development as Andrea Carfi (Moderna) and Claudia Sala (Fondazione Toscana Life Sciences), clinicians as Fausto Baldanti (University of Pavia), epidemiologists as Giovanni Rezza (General Director of Prevention of the Italian Ministry of Health), vector biologists as Andrea Cristanti (University of Padova), among many others. Check the complete speakers list at—<https://isags-pavia.unipv.it/virology/-speakers/> . This school is proposed for PhD students and early-stage researchers in microbiology, epidemiology, bioinformatics and public health policies.

The course aims at providing an inter-sectorial overview of the rising problem of emerging viral infectious diseases, from genomics to clinical aspects, from social and demographic drivers to control strategies against emerging viral threats.

When/Where: 30 total hours on Sept. 6-10, 2021, Online on Zoom Language: English

Fee: 100 euros 50% discount for PhD students from developing countries Deadline: 31 August

Course Organizers: University of Pavia - Fausto Baldanti, Giovanni Maga, Davide Sasserà More information at:—<https://isags-pavia.unipv.it/virology/> Lino

Ometto Department of Biology and—Biotechnology —
| —University of Pavia Via Ferrata 9 - 27100 Pavia
- Italy email: lino.ometto@unipv.it —| —phone: +39
0382986079

Società Italiana di Biologia Evoluzionistica—www.sibeb.it
Lino Ometto <lino.ometto@unipv.it>

Online EnvironmentalMetabolomics Sep15-22

Introduction to EnvironmentalMetabolomics

In-person, September 15-22 at Aarhus University, Denmark

6 days of lectures, exercises and workshops for PhD fellows and Early career researchers

The aim of the summer school is to introducestate-of-the-art environmental metabolomicsbased on high-resolution mass spectrometryincludingits possibilities and shortcomings.The course willintroduceanalytical-hardware (e.g.Orbitrap mass spectrometry) andacquisition strategies, study design and sample preparation in an environmental context.The course will place its main focus(day 2-6)onworking withstate-of-the-art informatic tools for data (pre-)processingand statistical-analysis,e.g.MZmine, XCMS, GNPS, Compound Discoverer,MatLaband R.Participants can bring own untargeted metabolomic datafor usein the workshops.

More information: <https://projects.au.dk/-environmentalmetabolomics/> If your have any questions, please contact Associate Professor Martin Hansen, Dept Environmental Science, Aarhus University (martin.hansen@envs.au.dk).

Best wishes, Martin

Martin Hansen Associate Professor Environmental-Metabolomics Lab

Aarhus University Faculty of Technical Sciences Department ofEnvironmentalScience Section ofEnvironmental-Chemistry andToxicology

Martin Hansen <martin.hansen@envs.au.dk>

Online EvolGeneticsMedicine Aug30

The Tartu Summer school on Evolution, Genetics and Medicine 2021

This is the first school of a series of annual international summer schools that brings together evolution, genetics and medicine. The school is organised by the cGEM group at the Institute of Genomics, University of Tartu, Estonia.

Programme The summer school is focussed on methods and resources for identifying the present-day consequences of past natural selection for phenotypic variation and susceptibility to disease, and will cover advanced methods for inferring evolutionary histories from genomics data and linking them to large-scale genomic and functional datasets. Lectures introducing theoretical concepts and methods will be combined with workshops designed to give hands-on experience.

Anders Eriksson: Evolutionary theory of complex traits
Vasili Pankratov: Tree-based based methods of evolutionary inference
Michael Dannemann: Introgression from archaic humans
Mayukh Mondal: Deep learning methods for evolutionary inference
TÅµnis Org: Epigenetics and cell-based functional assays

The school will be held online between August 30 and September 2, and will be free of charge.

Application The course is aimed at PhD students of mathematics and bioinformatics with an interest in evolution. We also welcome students from biological and medical backgrounds with sufficient background in computational analysis, advanced undergraduates, and postdocs. We can accept maximum 40 students.

Applications are to be sent by email to kaisa.kuus@ut.ee.

The application should contain: * full contact data (name, affiliation, postal address, email address) * a brief CV containing prior studies and/or positions * a one-paragraph description of scientific interest and motivation * list of publications (if any)

Please send all relevant information in one pdf file (not in the email text).

The deadline for applications is August 18 and we shall notify all applicants by August 23.

Best wishes Anders Eriksson

Associate Professor of Interdisciplinary Research in Ge-

nomics Center for Genomics, Evolution and Medicine (eGEM) Institute of Genomics University of Tartu email: anders.eriksson@ut.ee

“anders.eriksson@ut.ee” <anders.eriksson@ut.ee>

Online EvoQuantGenetics Sep13-17

Dear evoldir members,

Transmitting Science is offering the LIVE ONLINE course 'Introduction to Evolutionary Quantitative Genetics'

Instructor: Dr. Erik Postma (University of Exeter, UK)

Dates: September 13th-17th, 2021 - 10:00-13:00 & 15:00-18:00 (Madrid time zone)

A FULL SCHOLARSHIP is available for this course. Deadline for scholarship applications is August 15th.

COURSE OVERVIEW:

The response to both natural and artificial selection critically depends on the additive genetic variances and covariances underlying the traits subject to selection. As a consequence, understanding the genetic basis of complex morphological, life-history, physiological, ornamental and behavioural traits is crucial if we are to understand their evolutionary potential, and the evolutionary process in general.

Quantitative genetics uses the phenotypic resemblance among related individuals to infer the role of genes and the environment in shaping phenotypic variation. Depending on the species, we can use data obtained from breeding experiments under controlled conditions (e.g. insects, plants), or from individual-based monitoring programs in the wild (e.g. birds and mammals). Especially the latter has benefited greatly from the application of animal model methodology, originally developed in animal breeding to identify individuals of high genetic merit. By simultaneously using the resemblance among all individuals in the pedigree, these methods provide more precise and accurate estimates of genetic and non-genetic variance components (heritabilities and genetic correlations). Furthermore, they allow for the estimation of individual-level genetic effects (breeding values), and thereby the inference of evolution.

In this course we will cover everything from basic quantitative genetic theory and statistics to advanced mixed model-based approaches. You will learn how to estimate genetic variances and covariances in wild and captive

populations, and how to test for evolutionary change. Along the way, you will be exposed to a range of general statistical methods (including generalised and mixed models), the R packages MCMCglmm and ASReml-R in particular. Furthermore, we will discuss a number of landmark papers that have put the concepts and methods covered during the lectures and practicals into practice to address fundamental evolutionary questions. You are strongly encouraged to bring your own data (if you have them), which you will be able to work on during the course and which will allow you to put the theory into practice.

For more information and registration: <https://www.transmittingscience.com/courses/genetics-and-genomics/introduction-evolutionary-quantitative-genetics/> Contact: courses@transmittingscience.com <courses.greece@transmittingscience.com>

All the best,

Haris Saslis, PhD Course Coordinator Transmitting Science www.transmittingscience.com <<http://www.transmittingscience.org/>>

haris.saslis@gmail.com

Online MetabolomicsInR Nov1-4

Metabolomics: from study design to data analysis in R
Online, 1-4 November

Course website: (<https://www.physalia-courses.org/courses-workshops/course55/>)

Instructor: Dr. Pietro Franceschi (Fondazione E. Mach, Italy)

OVERVIEW: The aim of the course is to cover some of the fundamental aspects of metabolomics from the “data analyst” point of view. We will cover all the key aspects which have to be considered to set-up a successful metabolomics investigation, from the practical issues related to study/analytical design to data pre-processing and statistical analysis. The course will be delivered relying on a mixture of lectures, computer-based practical sections, and group discussions.

Prerequisites: Familiarity with R will be assumed. A full day of the course will be however devoted to a fast introduction to data carpentry and visualization in R. A basic experience in metabolomics will be welcomed.

Full list of our courses and Workshops: (<https://www.transmittingscience.com/courses/>)

www.physalia-courses.org/courses-workshops)

Should you have any questions, please do not hesitate to contact us: info@physalia-courses.org

All the best, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
info@physalia-courses.org mobile: +49 17645230846 Follow us on (<https://twitter.com/Physacourses>)

“info@physalia-courses.org” <info@physalia-courses.org>

Online PlantEvolution Oct5 12 19

Save the Date!

Registration announcement to follow.

Interested in plant responses to global change? 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

Contact us to be added to our mailing list!

projectbaseline@gmail.com Facebook: @project-baselineseedbank 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>

Online SpeciationGenomics Dec6-10

Dear all,

registrations are now open for our 5th edition of the Speciation Genomics course with Dr. Mark Ravinet (University of Nottingham, UK) and Dr. Joana I. Meier (University of Cambridge, UK).

The course will be held online in December (6th-10th): <https://www.physalia-courses.org/courses-workshops/course37/> This course will provide a thorough introduction to the growing field of speciation

genomics. The course aims to take students from the initial steps required for handling raw sequencing data to demographic modelling and inference of genome-wide signatures of selection and introgression. Through a combination of lectures covering key theoretical and conceptual topics, alongside hands-on exercises, participants will learn the most important computational approaches used in speciation genomics. This will include a heavy emphasis on data visualization and interpretation. After completing of the course, the participants should be able to begin using NGS data to shed light on the genomic aspects of speciation in their study system of choice.

Learning Outcomes:

1. Handling NGS data from raw reads to genetic variants
2. Applying basic population genetic statistics
3. Visualizing the genetic structure
4. Inferring demographic history
5. Identifying regions under divergent selection or barriers to gene flow
6. Understanding the potential and limitations of different methods to detect regions under selection

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

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
info@physalia-courses.org mobile: +49 17645230846 Follow us on (<https://twitter.com/Physacourses>)

“info@physalia-courses.org” <info@physalia-courses.org>

Portugal Evolution 2021-2022

cE3c Advanced Courses 2021/2022 - List already available

The detailed program of the Advanced Courses organized by cE3c - Centre for Ecology, Evolution and Environmental Changes for the academic year 2021/2022 is already available. There are 21 courses in total, of which three are new.

IMPORTANT NOTE: Most courses are intended to be

presential, but if needed (e.g. due to COVID-19 security measures by the time of the course) they may be adapted to be given remotely (online). Courses that will only occur if possible in presential format are noted.

These courses are aimed for students enrolled in Doctoral Programmes in Biology or related areas. They can also be attended by post-graduate students of other Doctoral Programmes or Masters in Biology, or others with basic biology formation (such as BSc in Biology or related areas).

These courses are free for 1st year PhD students of several Doctoral Programmes of the Faculty of Sciences of the University of Lisbon (FCUL) or institutions in partnership with FCUL, counting credits for their formation:

- Biology, Ciências do Mar or other PhD programmes at FCUL;
- Biodiversity, Genetics and Evolution - BIODIV (ULisboa and UPorto);
- Biology and Ecology of Global Changes - BEAG (ULisboa and UAveiro);
- Sustainability Science (ULisboa)

The courses have in general an intensive format, with one week of duration, with 5-6 ECTS recognition for the above mentioned Doctoral Programmes. Some have a shorter format (see details in each course's programme).

We detail below the list of courses, teachers and calendars. More details (including programmes, fees and procedures for applications) can be found at:

<https://ce3c.ciencias.ulisboa.pt/training/?cat> Advanced Courses cE3c 2021/2022

October 25th - 29th 2021 - Scientific Writing and Communication (Gabor Lövei). Deadline for applications September 17th 2021. (only occurs if possible in presential format; due to COVID-19, it may be cancelled or re-scheduled).

November 8th - 12th 2021 - Production of Science Communication Activities (Cristina Luís, Filipa Vala & Patrícia Garcia Pereira). Deadline for applications October 15th 2021.

November 15th - 19th 2021 - Stable isotopes in Ecology and Environment: a tool to integrate scales and complexity (Cristina Máguas). Deadline for applications October 15th 2021.

November 15th - 19th 2021 - Natural History Collections and Biodiversity (Maria Judite Alves et al.). Deadline for applications October 15th 2021

November 22nd - 26th 2021 - EvoS-2 - Evolutionary

Studies - applying evolutionary thinking outside the biology realm (Filipa Vala). Deadline for applications October 22nd 2021.

January 17th-21st 2022 - Island Biogeography (Ana Margarida Santos et al.). Deadline for applications December 15th 2021. (only occurs if possible in presential format, may be cancelled due to COVID-19)

January 24th - 28th 2022 - Soil ecology and ecosystem services (Teresa Dias & Cristina Cruz). Deadline for applications: December 27th 2021.

February 7th - 11th 2022 - Until death do us apart: living in a symbiotic world (Silvana Munzi, Cristina Cruz & Lourdes Morillas). Deadline for applications January 7th 2021.

February 14th-18th 2022 - Urban Ecology: the green within the city (Pedro Pinho, Julia Bentz, Cristina Branquinho et al.). Deadline for applications January 14th 2022.

March 7th - 11th 2022 - Strategies for citizen engagement in science communication (Cristina Luís, Esther Marin et al.). Deadline for applications February 11th 2022.

April 4th - 6th 2022 - Science and the Media: bringing together scientists, journalists and society (Marta Daniela Santos). Deadline for applications March 7th 2022.

May 4th- 6th 2022 - Introduction to R programming and biological data analysis (Inês Fragata & Vitor Sousa). Deadline for applications April 4th 2022.

May 9th - 13th 2022 - Advanced R for Ecology and Evolutionary Biology (Inês Fragata & Vitor Sousa). Deadline for applications April 4th 2022.

May 16th- 20th 2022 - Hands on Functional Diversity: from Ecological Indicators to Ecosystem Services (Alice Nunes, Paula Matos, Laura Concostrina-Zubiri et al.). Deadline for applications April 15th 2022.

May 23rd-27th 2022 - Climate Change Adaptation (Silvia Carvalho et al.). Deadline for applications April 1st 2022. (NEW)

May 30th - June 3rd 2022 - Experimental Design and Reproducibility in Science (Inês Fragata, Leonor Rodrigues & Diogo Godinho). Deadline for applications April 29th 2022. (NEW)

June 20th - 24th 2022 - Applied Methods in Community Ecology and Functional Ecology (Paulo Borges & François Rigal). Deadline for applications May 6th 2022.

June 27th - July 1st 2022 - Botany in the 21st century: integrating modern molecular methods and classical de-

scriptive taxonomy (Patrícia dos Santos et al.). Deadline
for applications May 15th 2022. (NEW) (only

— / —

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>

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from ‘blackballed’ addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notification of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as L^AT_EX 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 sent to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformatting is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by L^AT_EX do not try to embed L^AT_EX or T_EX in your message (or other formats) since my program will strip these from the message.