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# E v o l D i r

February 1, 2021

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

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## Foreword

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

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

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



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## Conferences

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### Online 150thAnniversaryOfTheDescentOfMan Feb2-Apr20

The Center for the Dynamics of Social Complexity (<http://dysoc.org>) is happy to announce a series of free webinars on

“Human origins and cultural evolution: Celebrating the 150th anniversary of The Descent of Man” .

This series is a continuation of the Fall 2020 DySoC/NIMBioS Webinar Series on Cultural Evolution [http://www.dysoc.org/ces\\_webinars](http://www.dysoc.org/ces_webinars) Register once for the entire series: [https://tennessee.zoom.us/webinar/-register/WN\\_yJ5vObgNTPSTXP\\_94OiUxA](https://tennessee.zoom.us/webinar/-register/WN_yJ5vObgNTPSTXP_94OiUxA) Schedule:

Feb 2, 12:15 p.m. EST, Joe Henrich (Human Evolutionary Biology, Harvard Univ.) “The Secret of Our Success” Feb 9, 11:45 a.m. EST, Marta Lahr (Human Evolutionary Studies, Univ. of Cambridge, UK) Topic TBA Feb 16, 11:45 a.m. EST, Johannes Krause (Max Planck Institute for the Science of Human History, Jena, Germany) Topic TBA Feb 23, 11:45 a.m. EST, Chris Stringer (Human Evolution, Natural History Museum, London, UK) “What is Homo sapiens?” Mar 2, 11:45 a.m. EST, Polly Wiessner (Human Evolution and Social Change, Arizona State Univ.) “The Embers of Society: Firelight Talk among the Ju/’hoansi Bushmen”

Mar 9, 12:15 p.m. EST, Michael Muthukrishna (Economic Psychology, London School of Economics, UK) “Cultural Brain Hypothesis, Collective Brains, and the Evolution of Intelligence” Mar 16, 11:45 a.m. EDT, Louise Barrett (Psychology, Univ. of Lethbridge, Alberta, Canada) “Thinking Outside the Head: Cognitive Ecologies and Evolutionary Psychology” Mar 23, 11:45 a.m. EDT, Sarah Mathew (Human Evolution and Social Change, Arizona State Univ.) “War and Peace: The Cultural Evolution of Large-scale Conflict and Cooperation” Mar 30, 11:45 a.m. EDT, Fiona Jordan (Anthropology, Univ. of Bristol, UK) “‘A subject too large and complex’ for Darwin: The cultural evolution of kinship terminology” Apr 6, 11:45 a.m. EDT, Manvir Singh (Human Evolutionary Biology, Institute for Advanced Studies, Toulouse, France) “Human social organization during the Late Pleistocene: Challenging the nomadic-egalitarian model” Apr 13, 11:45 a.m. EDT, Thomas Currie (Cultural Evolution, Biosciences, Univ. of Exeter, UK) “The descent of rules: Investigating the cultural evolution and ecology of institutions” Apr 20, 11:15 a.m. EDT, Maria Lapinski (Health and Risk Communication Center, Michigan State Univ.) “Communicating Cultural and Social Norms”

More detail: [http://www.dysoc.org/dom\\_webinars](http://www.dysoc.org/dom_webinars) Previous webinars: <http://www.dysoc.org/seminars> Sergey Gavrilets Distinguished Professor Department of Ecology and Evolutionary Biology Department of Mathematics Associate Director for Scientific Activities National Institute for Mathematical and Biological Synthesis (NIMBioS) Director, Center for the Dynamics

of Social Complexity (DySoC) University of Tennessee, Knoxville, TN 37996 Research Affiliate School of Anthropology, University of Oxford 51-53 Banbury Rd, Oxford OX2 6PE External Faculty Complexity Science Hub Vienna Josefstadter Strasse 39, A1080 Vienna

phone: (865) 974-8136 fax:— (865) 974-3067 e-mail: gavrila@tiem.utk.edu web: [www.tiem.utk.edu/~gavrila](http://www.tiem.utk.edu/~gavrila) NIMBioS: [www.nimbios.org](http://www.nimbios.org) DySoC: [www.dysoc.org](http://www.dysoc.org) Sergey Gavrilets <gavrila@tiem.utk.edu>

[Portals/0/Images/Webinars/Enero2021/-JRCWebinar\\_JAN15th.pdf](#) KInd regards

Cristina Chaminade

Cristina Chaminade, PhD Full Professor Lund University School of Economics and Management Director of the Master in Innovation and Global Sustainable Development Lund University Box 7083, 22007 LUND Sweden [cristina.chaminade@ekh.lu.se](mailto:cristina.chaminade@ekh.lu.se) and [cchaminade@gmail.com](mailto:cchaminade@gmail.com) [www.cristinachaminade.com](http://www.cristinachaminade.com) [chami@cchaminade@gmail.com](mailto:chami@cchaminade@gmail.com)

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## Online CIGENE Feb10

Dear EvoDir members,

We are pleased to announce that the online CIGENE seminars are now up. We kick-off the semester with a presentation by Rishi De-Kayne, EAWAG, 10th February 2021 at 12:00-12:50 (Oslo time). He will talk about: Genomic insights into the evolution of the Alpine whitefish radiation.

For abstract and updated information on CIGENE seminars, please visit: <https://cigene.no/cigene-seminar-series/> Anybody interested except for Zoombomber is welcome. Recording is not planned.

Best wishes,

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>

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## Online ConservationAndCovid Jan15

I would like to announce this webinar on the impact of Covid on Conservation Worldwide, which I think would be of interest to evolutionary biologist. It brings together speakers from IUCN, Oxford University, TRAFFIC, Europarc Foundation and the Jaguar Rescue Center. Below you can find the link to the entire program, The webinar free of cost, will take place on the 15th of January, 0800-1200 CST.

<https://www.jaguarrescue.foundation/>-

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## Online EvolCompGen Jan28

Dear colleagues,

You are invited to the next online journal club on Evolution and Comparative Genomics organized by ISCB and SMBE (as part of the ISCBacademy series of webinars) on Evolution and Comparative Genomics.

The next seminar will take place next week, Thursday January 28, at 11:00AM EDT: A phylogenetic simulation framework for gene and subgene evolution by Soumya Kundu (University of Connecticut).

Participation is free for any member of ISCB or SMBE, but registration is required. To register, please follow the link below: <https://www.iscb.org/iscbacademy-upcoming#kundu> A link to the article: Kundu, S., & Bansal, M. S. (2019). SaGePhy: An improved phylogenetic simulation framework for gene and subgene evolution. *Bioinformatics*, 35(18), 3496-3498. <https://doi.org/10.1093/bioinformatics/btz081> If you are interested in presenting, or you want to suggest an article of interest for the journal club, please send an abstract to [webinar@evolcompgen.org](mailto:webinar@evolcompgen.org) with “Abstract for Webinar” as the title of your message.

All the best,

Aida Ouangraoua, on behalf of the organizing committee.

Aida Ouangraoua <[Aida.Ouangraoua@USherbrooke.ca](mailto:Aida.Ouangraoua@USherbrooke.ca)>

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## Online EvolutionEcology Feb-Mar

Dear EvolDir,

Join us for the new year of our popular online seminar series in Evolution and Ecology. We have now released the schedule of seminars for February and March; please see details below. Talk titles to be announced soon.

—  
Wed 10 Feb

Professor Gerald Carter

(Dept. of Evolution, Ecology & Organismal Biology, The Ohio State University, USA)

—  
Wed 17 Feb

Professor Walter Salzburger

(Dept. of Environmental Sciences, University of Basel, Switzerland)

—  
Wed 24 Feb

Dr. Siobhan O'Brien

(Dept. of Integrative Biology, University of Liverpool, UK)

—  
Wed 3 March

Dr. Melissa Rowe

(Dept. of Animal Ecology, Netherlands Institute of Ecology, Wageningen, NL)

—  
Wed 10 March

Professor Li Zhao

(The Rockefeller University, New York, USA)

—  
Wed 17 March

Dr. Pavitra Muralidhar

(Dept. of Organismic & Evolutionary Biology, Harvard University, USA)

Wed 24 March

Professor Tracey Chapman

(School of Biological Sciences, University of East Anglia, UK)

—  
Wed 31 March

Professor Troy Day

(Depts. of Mathematics and Biology, Queen's University, Canada)

—  
When: 5PM GMT / 9-10AM PST, Wednesdays.

Where: talks live-streamed to our YouTube channel <https://www.youtube.com/channel/UCMsYvoHLNVm4rbcTLj162zQ>, post your questions for our speakers via Slack

Publicity: upcoming talks promoted on Slack & Twitter @EvoEcoSeminars (<https://twitter.com/EvoEcoSeminars>)

How to join: our Slack 'Evolution and Ecology Seminars' here [https://join.slack.com/t/evolutionecol-x154980/-shared\\_invite/zt-ev4fe0io-M7B~D6p74bIV\\_ZRcDtmAcg](https://join.slack.com/t/evolutionecol-x154980/-shared_invite/zt-ev4fe0io-M7B~D6p74bIV_ZRcDtmAcg)  
Please follow our Twitter feed and join the Slack group for details of future upcoming talks.

Hope that you can join us. Feel free to circulate to anyone who may be interested.

Many thanks,

Dr. Elizabeth Duxbury Dr. Andreas Sutter Dr. Iulia Darolti Dr. Wouter van der Bijl

Dr. Elizabeth Duxbury Senior Postdoctoral Research Associate Prof. Alexei Maklakov Group School of Biological Sciences University of East Anglia Norwich Research Park UK

"Elizabeth Duxbury (BIO - Staff)"  
<E.Duxbury@uea.ac.uk>

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## Online ExploringTheEukaryoticTreeOfLife Apr28

Calling for abstracts for the "Exploring the Eukaryotic Tree of Life" session that will take place during the 2021 Annual Conference Online of the Microbiology Society

on Wednesday, 28th of April (14:00 - 17:00 UK time).

This session, under the umbrella of Protistology-UK, will complement the new UK initiative “Darwin Tree of Life Project”, which aims to sequence and annotate the genomes of 66,000 UK species of animals, plants protists and fungi. This initiative is part of the “Earth BioGenome Project”, which targets to sequence all 1.5 million known eukaryotic species on earth. Protists and fungi are the main contributors to this list and we will explore their vast diversity, not only within the UK, but globally. We are inviting speakers to discuss which branches of the eukaryotic tree of life have been over/underestimated based on recent metagenomics data and which regions have been under-sampled to explore the evolution of potentially new branches of the eukaryotic tree.

Invited speakers include: Prof. Neil Hall (Earlham Institute, UK) Prof. Patrick Keeling (UBC, Canada) Dr. Sarah Hu (Woods Hole Oceanographic Institute, USA)

Organisers: Dr. Anastasios Tsaousis (University of Kent, UK) and Dr. Sonja Rueckert (Edinburgh Napier University, UK)

Abstract submission deadline: 15 February 2021 <https://microbiologysociety.org/event/annual-conference/-annual-conference-online-2021.html#tab-2> For more information, please visit the Microbiology Society’s website: <https://microbiologysociety.org/event/annual-conference/annual-conference-online-2021.html#tab-0> For more information regarding Protistology-UK can be found here: <https://www.protistology.org.uk> Kind regards,

Anastasios Tsaousis Vice President of Protistology-UK  
Dr. Anastasios D. Tsaousis | Reader in Molecular & Evolutionary Parasitology School of Biosciences, University of Kent, Canterbury, Kent, CT2 7NJ, UK

Homepage < <https://www.adtsaousis.com> > | Kent Homepage < <https://www.kent.ac.uk/biosciences/people/653/tsaousis-anastasios> > | ORCID < <https://orcid.org/0000-0002-5424-1905> > | Google Scholar <

<https://scholar.google.co.uk/citations?user=MCBBAAAA&hl=en&oi=sra> > | Scopus < <https://www.scopus.com/authid/detail.uri?authorId=535313800> > | Twitter: @ADTsaousis | Skype: tsaousislab | Email: a.tsaousis@kent.ac.uk | Tel: +44 (0) 1227 82 7007 | Office: Ingram 220 | Lab: Ingram G48

Anastasios Tsaousis <A.Tsaousis@kent.ac.uk>

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## Online In Honour Prof John A Woolliams

Hi,

Please note that we have further increased the number of available registrations for the Symposium in honour of Professor John A. Woolliams that is taking place on-line on the 28th January

<https://www.eventbrite.co.uk/e/symposium-in-honour-of-professor-john-a-woolliams-tickets-129488510621> On behalf of the organising committee.

With regards!

University of Edinburgh Gregor Gorjanc, PhD Roslin Institute Chancellor’s fellow in Easter Bush Data Driven Innovation for AgriTech Midlothian twitter: @GregorGorjanc EH25 9RG mail: gregor.gorjanc <at>roslin.ed.ac.uk Scotland, UK

Gregor Gorjanc <gregor.gorjanc@roslin.ed.ac.uk>

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## Online MICPhylogenomics Feb15-17

Dear EvoDir Community,

We would like to inform you that the deadline for workshop registration and abstract submission for MIC-Phy 2021 is approaching: **\*\*15th January 2021\*\***.

The **\*\*Mathematical, Inferential, and Computational Phylogenomics\*\*** (MIC-Phy) workshop will take place online from 15th to 17th February 2021. It intends to stimulate a broader discussion on novel phylogenomic models, focusing on the computational and statistical aspects of using large and heterogeneous sequences to build species trees and perform inference. We welcome submissions on recent advances in phylogenetic method development (both theoretical and computational), as well as key insights into new or old data gained using novel methods.

Keynote speakers: \* Ziheng Yang (University College of London, UK) \* Tracy Heath (Iowa State University of Science and Technology, USA)

We will hold small computer tutorials entitled **\*\*New**

approaches to phylogenetic inference\*\*. The main focus will be polymorphism-aware phylogenetic models and software sessions in RevBayes and IQ-TREE.

MIC-Phy is supported by the WWTF and VetMedUni Vienna, and there is no registration fee!

You can find more information about the workshop at <https://mrborges23.github.io/micphy2021/>. Important dates: \* 15th January 2021: Deadline for workshop reg-

istration and abstract submission \* 1st February 2021: Notification of oral/poster presentation and workshop acceptance \* 9th February 2021: Registration and poster submission deadline

Best wishes, Rui Borges and Carolin Kosiol (On behalf of the organizing committee)

[rui Borges23@gmail.com](mailto:rui Borges23@gmail.com)

Rui Borges <[rui Borges23@gmail.com](mailto:rui Borges23@gmail.com)>

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## GradStudentPositions

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### CharlesU AvianSecondarySympatry

PhD POSITION in ECOLOGY at CHARLES UNIVERSITY IN PRAGUE

PROJECT \*Ecology and evolution of secondary sympatry in birds across spatial scales\*

We are seeking a highly motivated and creative PhD candidate to join a new project assessing secondary sympatry in birds across spatial scales (funded by the

Czech Science Foundation). The research is focused on the evolution of secondary sympatry in birds globally. The evolution of secondary sympatry is of central importance, because it allows the buildup of species diversity. Special emphasis will be placed on teasing apart local vs regional scales of species coexistence. You will learn and use a range of modern analytical approaches, disentangling macroecological patterns within a broad macroevolutionary framework. You will work with large-scale occurrence data from citizen-science projects, museum measurements, and phylogenies. The length of study is 4 years. The successful applicant will be supervised by Dr. Vladimir Remes ([www.vladremes.eu](http://www.vladremes.eu)) at the Department of Ecology, Faculty of Science, Charles

University in Prague.

\*We offer\*

- attractive research topic addressing major ecological and evolutionary questions
- 25000 CZK net per month (student scholarship and part-time employment), comfortably covering living expenses in the Czech Republic
- healthcare insurance and other benefits included
- friendly, supportive, and international environment

\*We expect\*

\*Essential:

- MSc degree in biology (ideally focused on ecology, evolution or behavior)
- enthusiasm for nature, science, ecology and evolution; independent thinking
- ability to work as a team member
- fluency in English in both speaking and writing
- basic command of R statistical environment and a dedication to learn more

\*Desirable:

- research experience evidenced by (co)authoring scientific papers or conference contributions
- experience with analyzing geographical or phylogenetic data
- programming experience (e.g. R, Python, Matlab or similar environments)

Please provide a structured CV (including BSc/MSc grades and projects), contacts for at least two academic referees (email, phone and affiliation), and a cover letter stating your previous work, research interests, motivation and qualifications for this project. All these materials, as well as informal questions, should be sent to Vladimír Remes (vlad.remes@gmail.com). Review of applications will start 15 March 2021. Selected applicants will be interviewed online in late March/early April 2021. The successful applicant will have to apply officially via webpage of the Faculty of Science, Charles University, before 30 April 2021. The position starts 1 October 2021, and the length of study is 4 years.

Vladimír Remes<sup>1</sup> <vlad.remes@gmail.com>

## **FUBerlin TermiteGenomics**

\*\* Doctoral position on termite genomics. Deadline for applications: 1st February 2021 \*\*

A 3-year doctoral position (TVL-13, 65%) is available at the Institute of Biology of the Freie Universität Berlin. The position is part of a project funded by the Deutsche Forschungsgemeinschaft (DFG) that aims to take advantage of recent developments in genomic sequencing to gain new insights into a major milestone in evolution: the emergence of sociality. The transition to sociality that exists across termites and their nearest cockroach relatives represents a powerful framework for understanding the genomic changes behind this significant evolutionary transition. The main objective of the project is to sequence, assemble and annotate platinum-grade genomes from a range of representative species spanning the origin and subsequent diversification of termites. These data will be used to investigate the molecular mechanisms underpinning the evolution of termite eusociality and to elucidate the origins of termite division of labour. Genomes will be combined with transcriptomic as well as proteomic data to further explore the evolutionary origins of termite sociality.

The project will be carried out as a close collaboration between Prof. Dino McMahon (FU Berlin) and Dr. Mark Harrison from the University of Münster.

Responsibilities: Research in the field of genomics, with emphasis on genomic drivers of termite sociality; Preparation and analysis of transcriptomics (RNA-seq) and genomic data: Programming in R and Python / Statistical data analysis; Design of experiments (experimental design) and formulation of hypotheses; Preparation and execution of experiments; Working with live insects; Familiarization with project-related literature.

Qualifications for an application are a Bachelor and Master's degree (or soon to be completed) in natural sciences. Other desirable qualifications: background / strong interest in genome research and evolution; laboratory experience with molecular biology; good knowledge in programming; fluency in spoken and written English; good team and communication skills; ability to work independently; Experience: Completed projects or internships on research relevant topics are an advantage.

Applications should be written in English and include the following documents: (1) A cover letter with a brief

explanation of motivation (not more than one page).

(2) A curriculum vitae with details of your research experience and any publications.

(3) Names of 2-3 potential contacts as references. When sending your application by e-mail (preferred), please send as a pdf-document.

For informal enquiries about the position, please get in touch with Dino McMahon (dino.mcmahon@fu-berlin.de).

Deadline for applications: 1st February 2021 Application documents (CV, 1-page research statement), including contact details of 2 or 3 referees, should preferably be sent by PDF to the above contact, or by post to: Prof. Dr. Dino McMahon Unter den Eichen 87 12205 Berlin Germany

“McMahon, Dino Peter” <dino-peter.mcmahon@bam.de>

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## iDiv Germany TreeDiversity

M.Sc. thesis opportunity studying wood traits along environmental gradients at the German Centre for Integrative Biodiversity Research (Halle Jena Leipzig (Germany))

An opportunity for a Master thesis is open at the Evolution and Adaptation research group at the German Centre of Integrative Biodiversity Research (iDiv) in Leipzig - Germany. The topic of the thesis is centered on the study of wood functional trait and climatic variation along an environmental gradient with a focus on the species *Enterolobium cyclocarpum*. The species of study is a Neotropical deciduous tree, found in seasonally tropical dry forests from central Mexico to northern South America. The project is part of a PhD research on the drivers of adaptation to drought on *E. cyclocarpum* along water stress gradients in dry forests from Colombia, for which genomic (RAD-seq) and functional trait data are being currently collected and generated.

Tasks of the master student: - Participation in field work activities in Colombia for trait data collection (optional). - Processing of wood samples. - Analysis of wood traits (wood density, vessel density, vessel diameter, porosity, fiber length and tracheid length among others). - Assessing the link between wood traits and climatic variation. - Participation in co-authored publications.

The master student will be supervised by the doctoral

student, Francisco Velásquez, and Dr. Renske Onstein (leader of the Evolution and Adaptation group at iDiv).

If you are motivated and feel this topic is of your interest then please send your C.V. (including skills and courses taken) along with a short motivation letter to: francisco.velasquez\_puentes@idiv.de

“Francisco J. Velásquez P.”  
<velasquez.puentes.francisco@gmail.com>

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## IndianaUPennsylvania ConservationGenomics

The Emel lab <https://sarahemel.weebly.com/> is seeking a motivated master's student to take part in funded research on Appalachian cottontail conservation genomics at Indiana University of Pennsylvania (IUP). A 2-year Research Assistantship to cover tuition and stipend is available. This position starts in Fall 2021 in Indiana, PA, with an opportunity for related remote or on-campus employment in Summer 2021.

Appalachian cottontails have specific forested habitat requirements and are restricted to ridgetops in the Appalachian mountains, making them susceptible to changes in human land use patterns and other disturbances. In collaboration with the labs of Jeff Larkin and Joe Duchamp at IUP, this interdisciplinary project aims to determine the current status of this species, along with snowshoe hare, in the state of Pennsylvania, and to evaluate the genetic and ecological responses to landscape change and management practices. To study patterns of genetic diversity and gene flow across the landscape, the Emel lab is developing genomic tools for high-throughput species identification and SNP genotyping of native Lagomorphs.

The master's student will be instrumental in developing and applying these genomic tools to assess genetic structure and diversity. As a result, they will gain experience in the molecular laboratory methods, bioinformatics, and analysis of genomic data, with potential extensions depending on research interests. There will also be fieldwork opportunities if desired.

The IUP MS in Biology <https://www.iup.edu/biology/-grad/> offers coursework in molecular genetics, statistics, ecology, evolutionary biology, and special topics including landscape/conservation genetics. Graduates of the program go on to top PhD programs, state and federal agencies, non-governmental conservation organizations,



and industry.

Desired qualifications: Bachelor's degree in Biology, Computer Science, or a related field. Coursework in genetics, ecology, and evolutionary biology. Ability to work both independently and collaboratively. Strong written and oral communication skills and coursework in statistics and computer science preferred. Applicants with bioinformatic or coding experience in any language (R, python, bash, etc.) are especially encouraged to apply.

Interested candidates should email the following materials to Dr. Sarah Emel (semel@iup.edu). Review begins February 8; applications accepted until position filled: 1) Subject line reading "Emel Lab Graduate Position" 2) Brief description of your research interests and relevant experience 3) CV or resume 4) Unofficial undergraduate transcript 5) Contact information for 3 references

Informal inquiries are also welcome. The IUP Biology graduate program has rolling admissions, and top candidates will be instructed to apply.

Sarah L. Emel, Ph.D. Assistant Professor Department of Biology Indiana University of Pennsylvania

semel@iup.edu

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## LMU Munich 2 Behavioural Evolution

\*Ecology and evolution of social impact and responsiveness in a wild sparrow population\* Two PhD-positions in Behavioral Ecology at LMU Munich. Application deadline: 28.02.2021

\*Project description \*

Social interactions characterize all wild populations and affect evolution whenever heritable traits are plastic in response to heritable traits of conspecifics. The evolution of "social responsiveness" to and "social impact" on other's phenotypes has attracted theoretical attention, but progress requires addressing key outstanding questions: Do wild populations contain individual variation in degrees of social impact and responsiveness? Does selection act on this variation, and which processes maintain it? These key challenges will be addressed in a research programme to understand social evolution. The overarching aim is to combine the strengths of cutting-edge behavioural ecology and quantitative genetics theory to uniquely study the interplay between

social interactions and social selection in the wild. We will focus on social foraging strategies in house sparrows on Norwegian islands that use either private information and actively find food ("producers"  $\hat{\pm}$ ) or social information to exploit food patches found by others ("scroungers"). Game theory predicts socially responsive shifts towards scrounging when others produce, and vice versa. Using innovative high-throughput behavioural screening of entire populations, we aim to assay >600 birds for their producer-scrounger social impact and responsiveness in >4,000 assays and determine genomic relatedness, survival, and reproductive fitness for all individuals. We will address the following key objectives:

\*PhD-project 1\* will establish whether individuals are repeatable in (i) average level of producing-scrounging ("personality"), (ii) level of adjustment in producing-scrounging to phenotypes expressed by partners ("social responsiveness") and (iii) producing-scrounging elicited in partners ("social impact"). We will quantify covariances between these 'traits', describe (social) environmental sources of variation within and among individuals, and test for covariances with various key behavioural (aggression, exploratory tendency) and morphology traits (body size and shape) predicted by adaptive theory. \*PhD-project 2\* will quantify how natural selection acts on producing-scrounging reaction norms and study whether selection pressures covary with key socioecological conditions; and thus determine the pathways (components of fitness) by which selection acts on this variation in the social phenotype in this well-studied system. This will make it possible to start exploring the potential evolutionary consequences of selection on social impact and responsiveness in the wild, thereby providing crucial new insights into the evolution of social behaviour and the role of social interactions in ecological and evolutionary processes.

\*Research and Project group\* The PhD-students will be embedded in the Behavioural Ecology Group of the Ludwig Maximilian's University of Munich, located in Martinsried. The group works broadly on two topics: individual behaviour and life-history (Prof. NJ Dingemanse) and pre- and post-copulatory sexual selection (Dr. C Tuni). Our group consists of five PhD-students and two postdocs, offering a dynamic social environment. The PhD-projects are part of a collaboration with the Centre for Biodiversity Dynamics at NTNU (Trondheim). International collaborators: Profs. B-E Saether, H Jensen, T-H Ringsby, J Wright (NTNU), Prof. A. Wilson (Exeter) and Prof. J. Morrand-Ferron (Ottawa). PhD-students have the opportunity to apply for admission to the International Research School for Organismal Biology of the Max Planck Institute for Or-

nithology, which offers high-quality teaching programs for PhD-students and ample opportunity for networking and collaboration.

**\*Requirements\*** The two successful candidates should have background training in evolutionary biology and behavioural ecology. We are looking for candidates that have experience with fieldwork, bird handling, and are able to work independently. Coding skills are required for programming electronics equipment (sophisticated PIT-tag readers) and performing complex statistical analyses (e.g. multivariate animal models to estimate IGEs). Social skills and ability to flourish in a team are important for winter fieldwork in Norway and various collaborative aspects. Successful candidates speak fluent English. Command of Norwegian is a pro.

**\*Project duration and starting date\*** Successful candidates will be offered a three-year PhD-position funded by a grant of the German Science Foundation to Prof. NJ Dingemans. Starting date is 01.09.2021.

**\*Application package\*** Candidates should send a motivation letter and CV to Prof. N. Dingemans

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

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## NorthernArizonaU TreeEvolGenomics

Graduate Research Assistantship in Evolutionary Genomics of Tree species

The School of Forestry at Northern Arizona University (NAU) is seeking one highly motivated Master of Science student to join the Forest Genomics Lab. The position includes a stipend, tuition waiver, and health benefits for 2 years.

The student will use genomic tools to assess how hybridization and adaptive introgression contribute to ecological divergence and drought adaptation in Douglas fir. This position involves data analyses, molecular lab work, and greenhouse work.

Minimum qualifications: - Bachelor's degree in Genetics, Forest Sciences, Biology, Plant Sciences, Evolutionary Biology, Bioinformatics or related fields of study. - Have taken at least one course in Genetics and Evolution. -

Ability to program in R, Perl or Python (familiarity with Linux is a plus) - Willingness to work with big data sets in a computer cluster. - Availability to start by July 1st, 2021. - Molecular lab experience is desired.

How to apply: Please send a 1-page statement of interest, CV, unofficial copy of transcripts, GRE scores, and TOEFL scores (international students), and the names and contact information of 3 references by February 10th, 2021. If found to be a good match for the position, you will be encouraged to apply to the graduate program at NAU. Please note that NAU has the following admission requirements: GPA equal or higher than 3.0 and TOEFL 213 (computer-based) or 80 (internet-based).

Contact Information: Dr. De La Torre, [Amanda.de-la-torre@nau.edu](mailto:Amanda.de-la-torre@nau.edu) Lab <https://treegenomicslab.com> Institution: Northern Arizona University is a 29,000 student-institution with its main campus in Flagstaff, a four-season community of about 70,000 at the base of the majestic San Francisco Peaks. Flagstaff has all-year easy access to the Arizona snow bowl ski resort and is located at 1-hour drive from the Grand Canyon.

Useful links: School of Forestry- <http://nau.edu/forestry> SOF M.S. program- <http://nau.edu/CEFNS/Forestry/-Degrees/MS/> Amanda De La Torre <[Amanda.de-la-Torre@nau.edu](mailto:Amanda.de-la-Torre@nau.edu)>

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## Paris EvolutionaryMachineLearning

A PhD position on « Creating AI/ML techniques to enhance mechanistic eco-evolutionary computer simulations » is available in H el ene Morlon's research group at the Biology Institute of the Ecole Normale Sup erieure in Paris (France), in collaboration with Florian Hartig at the University of Regensburg (Germany) and Loic Pelissier at the ETH Zurich (Switzerland). The PhD is part of a Horizon 2020-COFUND European doctoral program « Artificial Intelligence for the Sciences » and will start in September 2021. Deadline for application: February 26th 2021.

Applicants should not have lived or carried out their main activity (work, studies, etc.) in France for more than 12 months in the 3 years immediately before the deadline of the call (MSCA Mobility rule), namely between the 27th of February 2018 to the 26th of February 2021.

Link to the project <https://euraxess.ec.europa.eu/-jobs/581234> Link to the doctoral program <https://>

[/psl.eu/en/recherche/grands-projets-de-recherche/-projets-europeens/programme-doctoral-ai4thesesciences](https://psl.eu/en/recherche/grands-projets-de-recherche/-projets-europeens/programme-doctoral-ai4thesesciences)

If you are interested, please contact H el ene Morlon <helene.morlon@bio.ens.psl.eu> and/or Florian Hartig <florian.hartig@biologie.uni-regensburg.de>

H el ene MORLON <helene.morlon@bio.ens.psl.eu>

## UAberdeen EvolutionInvasiveInsects

UAberdeen Evolutionary Ecology of Invasive Insects

A PhD position on the evolutionary ecology of invasive insects is currently available in Dr Manfredini research group at the University of Aberdeen, Scotland - see full details below. This is a 3.5 years project, part of a competition funded by QUADRAT NERC DTPand in collaboration with Prof Jaimie Dick (Queen's University Belfast), Dr Greta Bocedi (University of Aberdeen), Prof Helen Roy (UK Centre for Ecology & Hydrology) and Dr Lori Lawson Handley (University of Hull). The DTP is open to International applicants. Interested candidates are encouraged to contact Dr Manfredini (fabio.manfredini@abdn.ac.uk) before they submit an application - here is the link to the group website [https://www.abdn.ac.uk/people/fabio.manfredini/-#panel\\_research](https://www.abdn.ac.uk/people/fabio.manfredini/-#panel_research). Prospective candidates can find full details about the project, including criteria and eligibility, on FindAPHD or on the QUADRAT website (links below). Deadline to apply to this program is Monday, 18th January, 2021.

FindAPHD advert: <https://www.findaphd.com/-phds/project/quadrat-dtp-predicting-the-ecological-impacts-of-invasive-alien-insects-at-multiple-levels-from-genes-to-communities/?p125540> QUADRAT website: <https://www.quadrat.ac.uk/projects/predicting-the-ecological-impacts-of-invasive-alien-insects-at-multiple-levels-from-genes-to-communities/> Predicting the ecological impacts of invasive alien insects at multiple levels: from genes to communities

Biological invasions are global phenomena that impact ecosystems, the economy and human, animal and plant health (1). The rate at which biological invasions occur has grown exponentially in recent times, due to global trade that has increased the pathways for organisms to be transported across the globe at unprecedented speed (2). It is therefore of high importance to understand in advance the impact that alien organisms might pose to the ecosystems that they invade (3). Among invasive animals, top predators are of particular interest, as

they directly impact on a wide range of organisms that they prey upon, and also cascade their effects indirectly through, for example, enemy release.

In this PhD project, the student will adopt a series of experimental approaches, that span from molecular methods to behavioural and community analyses, to characterize whether key traits of insect top predators have shifted after biological invasions and also their actual and predicted impacts on ecosystems. The student will comparatively analyse two high profile insect invaders: the Asian hornet *Vespa velutina* (a recent invader) and the harlequin ladybird *Harmonia axyridis* (established in Europe). Hence, the two systems present a great opportunity to compare key ecological traits associated with a relatively "old" invasion (*Harmonia*) vs. a more recent one (*Vespa*), with an enhanced potential to predict the type of impact that these two insects might have across invaded ecosystems.

The student will perform field work in the UK, Europe and North America to sample insects of the two species from different populations representing a gradient in their history of invasion, and they will perform experiments in the lab to test behavioural and physiological traits that could be associated with successful invasions. Two traits will be prioritised: feeding behaviour/ecology and immunocompetence. Feeding analyses will combine density dependent patterns of prey consumption and preference (3) with stable isotope analyses and DNA metabarcoding, to characterize the composition of the diet of the two insects at a broader scale, and also with a high-throughput metagenomic approach to identify prey items at the highest resolution. For immunocompetence, a candidate gene approach will be used to characterize the expression patterns of key genes associated with constitutive and induced responses. This experimental approach will lay the ground for a statistical analysis to model the impact that *Vespa* and *Harmonia* are having on the ecosystem. This will be followed by another modelling approach to predict how top predators could impact UK ecosystems over time.

The project will provide a unique opportunity to interact with a supervisory team of scientists who display a wide range of expertise and share the same passion for the ecology of invasive alien species. In particular, the candidate will work under the supervision of Prof Dick (Belfast) and Prof Roy (CEH Wallingford) who are leading experts in the field of invasion biology, Dr Lawson-Handley (Hull) and Dr Manfredini

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

## UBasel AlpinePlantEvolution

PhD position in Alpine Ecology/Plant Evolution, University of Basel, Switzerland A 4-year PhD position (100%) is available in the group of Plant Ecology and Evolution at the University of Basel, Switzerland (<https://duw.unibas.ch/en/ecoevo/>). Research in the group focuses on the extent to which climate adaptation is possible, what the sources of evolutionary constraints are, and how they will affect future species distribution under global warming.

The evolutionary causes of elevational range limits are poorly known. Theory points to changes in the selection regime and genetic limitations. The selection regime may be important if environmental gradients are multivariate or steep at the lower and upper limit of elevational distribution. Genetic limits may arise because of low genetic variation in individual environmental tolerances or because of genetic correlations antagonistic to the direction of selection.

**Your Tasks:** Working with a few alpine and lowland plant species, the student will perform field surveys on species distribution, population genetic analyses and the study of selection in nature. Fieldwork will be an important part of the project and take place in Switzerland, in collaboration with research partners at other Swiss universities.

**Your Profile:** Candidates should have an enthusiastic interest in plants, their ecology and evolution, and a strong background in quantitative thinking, experimental design, statistical analysis/bioinformatics, and rearing plants. Applicants must have a university degree in natural sciences that allows entrance to a PhD program (ideally in ecology or evolutionary biology), and very good organizational, analytical, and scientific writing skills. Applicants should have a driver's license.

**We offer:** The project is based at the Department of Environmental Sciences, University of Basel, Switzerland. The Department offers a stimulating environment, including a rich spectrum of research activities in life sciences (plant ecology, population genetics, evolutionary biology, plant physiology and molecular and cell biology). Students will be enrolled in the PhD program of the ZÃrich-Basel Plant Science Center. Basel is a mid-sized Swiss city, well connected and offering a

broad range of cultural and recreational activities. Ideal starting date is March 2021 but is open to negotiation.

**Contact:** For more information, contact Yvonne Willi ([yvonne.willi@unibas.ch](mailto:yvonne.willi@unibas.ch)). Motivated applicants should submit (1) a one-page letter that summarizes interests and relevant experience, (2) their CV, (3) copies of undergraduate and masters/diploma transcripts, and (4) contact information of two references (all as a \*\*\*single PDF\*\*\*) to: [franziska.grob@unibas.ch](mailto:franziska.grob@unibas.ch). Applications are welcome until the position is filled and will be reviewed starting on February 15, 2021.

Yvonne Willi <[yvonne.willi@unibas.ch](mailto:yvonne.willi@unibas.ch)>

## UBern EvolutionaryGenomics

4-year PhD position in Evolutionary Genomics in Bern, Switzerland

A PhD position is available to work with Dr Milan Malinsky (<https://www.milan-malinsky.org>) in the context of his Swiss National Science Foundation (SNSF) funded project to study evolution of recombination rates. The position is based at the Institute of Ecology and Evolution at the University of Bern, Switzerland, is fully funded for 4 years including student fees and a generous stipend, and is open to applicants worldwide.

Recombination is a fundamental genetic process. It contributes to generating the genetic diversity upon which natural selection acts and mechanistically it ensures proper formation of sperm and egg cells. Studies of fine-scale distribution of recombination along chromosomes, and how this is regulated, have so far been possible only in a limited number of species. This is now changing. In this project, we are going to construct fine-scale recombination maps for over 30 species to (i) explore links between recombination and genetic differentiation in pairs of populations or closely related species; and (ii) to follow up on preliminary results suggesting the mechanisms for specifying recombination hot-spots in a large group of fishes (Percomorpha) may be distinct from other vertebrates.

We are looking for a highly motivated candidate with a strong interest in evolutionary biology, genetics, genomics, and bioinformatics. Candidates should hold a Master's degree, demonstrate scientific curiosity, initiative, problem-solving skills, and be able to confidently communicate in English. On the technical side, definite advantages include strong numeracy, understanding

of statistics and probability, and previous experience with computer scripts/coding. We are committed to increasing diversity, equity and inclusiveness in evolutionary biology and would like to especially encourage applications from underrepresented groups.

Milan is a young new PI, offering close focus on the project and supervision of the PhD candidate, while the project benefits from access to large unique genomic datasets and a world-class network of collaborators, including Ole Seehausen (formal co-supervisor) and Katie Peichel in Bern; Richard Durbin in Cambridge, UK; Walter Salzburger in Basel, Switzerland; and Molly Przeworski at the Columbia University in New York. There is the potential for the PhD candidate to spend up to eight months visiting at the Prof. Przeworski's lab in New York within the framework of this collaboration. Bern itself is within a short distance of some of the most iconic peaks of the Swiss Alps.

Applications should include a motivation letter, a CV, and contact details for at least two referees and should be sent, ideally as a single PDF document, to Milan Malinsky (millanek@gmail.com). The start date for the PhD is between 1st April 2021 and 30th September 2021, to be agreed with the successful applicant. Screening of applications will commence immediately and continue until the position is filled.

Applicants interested in more scientific background may find the following articles useful: - Coop, G. & Przeworski, M. An evolutionary view of human recombination. *Nat. Rev. Genet.* 8, 23-34 (2007). - Baker, Z. et al. Repeated losses of PRDM9-directed recombination despite the conservation of PRDM9 across vertebrates. *Elife* 6, 403 (2017). - Shanfelter, A. F., Archambeault, S. L. & White, M. A. Divergent Fine-Scale Recombination Landscapes between a Freshwater and Marine Population of Threespine Stickleback Fish. *Genome Biology and Evolution* 11, 1573-1585 (2019).

Dr. Milan Malinsky Principal Investigator Institute of Ecology and Evolution University of Bern, Switzerland email: millanek@gmail.com Personal website: <https://www.milan-malinsky.org> Google Scholar: <https://scholar.google.ch/citations?user=xiFJz70AAAAJ>

Milan Malinsky <milan.malinsky@unibas.ch>

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## UGhent EvolutionGenomeDuplication

Vacancy for a PhD fellow 'V The eco-evolutionary dynamics of whole-genome duplication

Department: Biology

Occupancy rate: 100%

Type of contract: limited duration

Closing date: 15th March 2021

Diploma: MSc degree related to the subject area

Job description: The VIB - UGent Center for Plant Systems Biology, Department of Plant Biotechnology and Bioinformatics and the Department Biology from Ghent University is offering a PhD scholarship (R1-level) in 2021 for an evolutionary biologist with strong interest in the modelling of eco-evolutionary dynamics 'V the dynamic interaction between ecological and evolutionary processes at contemporary timescales.

Polyploidy, i.e. the possession of multiple sets of chromosomes that results from whole-genome duplication (WGD), is a widespread phenomenon mainly associated with plants but has also been found in numerous insects and vertebrates. WGD is historically viewed as a source of novel genetic variation across the entire genome that allows fast adaptation to changing habitats. Multiple disadvantages do however constrain these adaptive capacities and evidence is accumulating that species with WGD may predominantly invade and persist under stress. In many species, whole genome duplication is associated with an increase in cell and/or body size, and mass-specific metabolism. The success of polyploidization is therefore anticipated to be governed by physiological responses that directly mediate ecological and evolutionary processes. The PhD student will study these dynamics interactions by means of ODE (Ordinary Differential Equation) and individual based models.

The PhD student will be part of a vibrant interdisciplinary research group lead by Prof. Van de Peer and Prof. Dries Bonte. The successful candidate will be expected to tightly collaborate with colleagues in related scientific disciplines using experimental evolution and genomics.

Job profile: Candidates should have a strong background

in ecological/evolutionary modelling and/or computational biology. Applicants should have a keen interest in the tight coupling between demographic and evolutionary processes. The position is available for a 4-years period, pending a positive intermediate evaluation. Applicants demonstrate excellent study results and good English skills. We expect the PhD student to provide some assistance in the group's regular teaching activities. As criteria for the assessment of your qualification, emphasis will also be laid on previous publications (if any) and relevant experience. We aim to hire students that reflect the diversity of society and thus welcome applications from all qualified candidates regardless of personal background. We equally welcome applications from students graduating before July 2021.

Application procedure: Send your CV, overview of study results, full details of 3 references, and your application letter, in English, to the two supervisors of the project.

Further information: For specific information about the PhD scholarship, please contact the principal supervisors prof. Yves Van de Peer ([yves.vandepeer@psb.ugent.be](mailto:yves.vandepeer@psb.ugent.be)) and Dries Bonte ([Dries.Bonte@UGent.be](mailto:Dries.Bonte@UGent.be)).

More information about the research of Prof. Dries Bonte can be found at: <https://www.ecology.ugent.be/-terec/research/spatial-ecology-and-evolution-group/>  
More information about the research of Prof. Yves Van de Peer can be found at: <http://www.vandepeerlab.org/>  
Dries Bonte <[Dries.Bonte@UGent.be](mailto:Dries.Bonte@UGent.be)>

## UGhent SpiderUrbanisation

Vacancy for a PhD fellow:

Thermal and nutritional adaptations to city life in the garden spider *Araneus diadematus* (SPIN-CITY).

Last application date: Mar 15, 2021 00:00 Department: WE11 - Department of Biology, Ghent University, Belgium Contract: Limited duration Degree: MSc degree related to the subject area Occupancy rate: 100% Vacancy type: Research staff

Job description

The Department Biology of Ghent University is offering a PhD scholarship (R1-level) in 2021 commencing latest on July 1st. The PhD student will be hosted at both the EON (Research group Evolution and Optics of Nanostructures, <https://www.ugent.be/we/-biology/en/research/eon>) and TERC (Terrestrial Ecol-

ogy, <https://www.ugent.be/we/biology/en/research/-terec>) research group. Supervision by prof. Dries Bonte ([Dries.Bonte@UGent.be](mailto:Dries.Bonte@UGent.be)) and dr. Bram Vanthournout ([Bram.Vanthournout@UGent.be](mailto:Bram.Vanthournout@UGent.be)). Urbanisation leads to a strong homogenisation of biodiversity, as many species go extinct while few species are able to persist in cities across the world. This persistence is caused by tolerance or adaptations towards stressors like urban heating and altered resources. Orb web spiders are predators that experience strong changes in prey composition but also a performance reduction due to thermal stress. Changes in body colouration are an important adaptation to thermal conditions, but they are constrained by nutritional conditions. As city life would select for paler colouration, reduced costs of producing pigments may provide an explanation for rescue under poor nutritional conditions in urban environments.

The student will participate in a research project funded by the Research Foundation ??? Flanders (FWO) and study the interplay between thermal and nutritional urban selection pressures in the garden spider. This will be achieved by a further development of an ongoing citizen-science project ([www.spiderspotter.com](http://www.spiderspotter.com)), combined with an extended survey of prey availability and nutritional quality in a research platform in Flanders and the quantification of body colouration across urban gradients in Europe. Targeted translocation experiments will subsequently allow understanding of the adaptive value of these phenotypic changes, as well as the potential for genetic evolution.

Job profile

Candidates should have a strong background in relevant subjects such as thermal, food web or urban ecology and evolution. Experience in conducting biological experiments or molecular analyses using arthropods (spiders) as a model is seen as an advantage. Applicants should have a keen interest/prior experience in citizen science and science communication in general. The position is available for a 4-years period, pending a positive intermediate evaluation. Applicants demonstrate excellent study results and good English skills. As criteria for the assessment of your qualification, emphasis will also be laid on previous publications (if any) and relevant experience. We aim to hire students that reflect the diversity of society and thus welcome applications from all qualified candidates regardless of personal background. We equally welcome applications from students graduating before July 2021.

How to apply

Send your application letter, CV, overview of study results and full details of 3 references, in English, to the two supervisors of the project.

Bram Vanthournout <Bram.Vanthournout@UGent.be>

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## UHohenheim LocalAdaptationPopGenHoneybees

University of Hohenheim, Department of Livestock Population Genomics, Institute of Animal Science, Germany

\*PhD position - Local adaptation to high elevation habitats in the honey bee *Apis mellifera*\*

Application deadline: 15.02. 2021

We invite applications from highly motivated candidates with the passion for and experience in animal population genetic analyses. Specifically, we will investigate the molecular mechanism underlying the local adaptation to high elevations habitats in the honey bee. Of particular interest here are chromosomal inversions on two chromosomes identified previously that have shifted to high frequency on different haplotypes of otherwise lowly differentiated chromosomes between highland and lowland populations. Funded by the German Research Foundation (DFG), the project will be performed in close cooperation with Prof. Ricarda Scheiner (University Würzburg), a second doctorate candidate and partners in East Africa.

Of particular relevance for the announced PhD position will be the in-depth analyses of honey bee genomes and transcriptomes, thus experiences in bioinformatics and a background from a population genetic lab is advantageous. Further, we will use CRISPR/Cas9 method to understand the role of selected candidate genes, thus organismic and molecular work is included.

We offer: DFG-funded PhD position (65% TV-L E13) for the duration of 3 years, work with up-to-date methodologies in a stimulating, friendly and international atmosphere. This work includes a field-trip to East Africa and research visits at the University Würzburg.

Embedded in an attractive and green environment, the University Hohenheim combines the advantages of a small campus area with the close vicinity to Stuttgart as lively and cultural centre.

Your Profile: M.Sc. degree (or equivalent) in Evolutionary Genetics/Populations Genetics/Biology strong interest and proven skills in molecular genetic techniques/genome analyses strong interest in evolutionary/population genetic questions strong communication skills (including English)

Starting date: as soon as possible

Please send your application including a cover letter detailing your motivation and research interests, detailed CV and two references by email (as a single pdf) to Prof. Dr. Martin Hasselmann, [popgenomik@uni-hohenheim.de](mailto:popgenomik@uni-hohenheim.de). Review of the applications will start on 15th February 2021 and continue until the position is filled. Interviews for shortlisted applicants will take place via video conference.

The University Hohenheim is committed to promoting the careers of women and therefore actively welcomes applications from female candidates. As an equal opportunities employer, we also encourage applications from suitably qualified disabled candidates.

For more information, please visit <https://popgenomik.uni-hohenheim.de/en> and contact directly:

Prof. Dr. M. Hasselmann by email ([martin.hasselmann@uni-hohenheim.de](mailto:martin.hasselmann@uni-hohenheim.de))

Dr. Martin Hasselmann Professor (Department Chair) University of Hohenheim| Institute of Animal Science (460)| Department of Livestock Population Genomics (460h) Garbenstrasse 17 | 70599 Stuttgart Tel: ++49 711-459 22481 (Office) | ++49 711-459 23581 (Secretary) Fax: ++49 711-459 24246

Web: <https://popgenomik.uni-hohenheim.de>

Martin Hasselmann <[martin.hasselmann@uni-hohenheim.de](mailto:martin.hasselmann@uni-hohenheim.de)>

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## ULausanne PlantEvolutionaryBiology

PhD studentship, Department of Ecology and Evolution, University of Lausanne, Switzerland

A PhD studentship in plant evolutionary biology is available in the research group of John Pannell in the Department of Ecology and Evolution, University of Lausanne. The student will consider the evolution and ecology of dispersal in the context of plant sexual systems, but the precise nature and focus of the student's research will depend on his or her specific interest. The project may include a mix of empirical research on, and theoretical modelling of, the evolution of dispersal at different spatial scales in the context of different life histories and reproductive systems. Empirical aspects may range from considerations of the biophysics of

short-range dispersal in one or more plant species with specialised dispersal mechanisms, to the characterisation of dispersal kernels under controlled and field conditions using genetic markers. Theoretical work, which would be jointly supervised by Charles Mullon in the same department, could extend to considerations of dispersal and kin selection. The project will integrate into current research in the lab on conflict between male and female components of reproduction and dispersal, on adaptations that (partially) resolve such conflict, and on the evolution of sex chromosomes: for details and a list of publications, see <https://www.unil.ch/dee/pannell-group>. Research scope and skills sought

The student's specific research will be tailored to his or her background, interests and personal training objectives. He or she should be able to demonstrate a strong interest in evolutionary ecology and/or population genetics. Experience and an interest in working with plants is not essential but could be an advantage, e.g., including managing glasshouse, common garden and/or field experiments. The successful candidate should also have good communication and interpersonal skills, an ability to work in a team, and a willingness to contribute to the Department's teaching.

#### Host department and university

The Department of Ecology and Evolution hosts a broad range of research groups, and its members enjoy a lively intellectual and social life. Although the University of Lausanne is francophone, the department is highly international, and all its research activity and seminars are conducted in English. The University has seven faculties and approximately 14,300 students and 3,900 researchers from over 120 countries. It is situated on a beautiful campus on the shore of Lake Geneva, and is close to the Swiss and French Alps.

#### Applications

Informal enquiries should be sent to John Pannell ([john.pannell@unil.ch](mailto:john.pannell@unil.ch)). Formal applications should be made through the University of Lausanne platform (<https://bit.ly/39FMD22>), which also provides additional information about the post. Applications (including a cover letter detailing your research interests, experience and motivation for applying, a CV, and the names of two or three referees) should be uploaded as a single PDF through the University of Lausanne platform. All applications received by 12 February 2021 will receive full consideration.

#### Application link

<https://bit.ly/39FMD22> University equality policy

The University of Lausanne promotes an equitable representation of men and women among its staff and encourages applications from women and minority groups.

John Pannell <[john.pannell@unil.ch](mailto:john.pannell@unil.ch)>

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## UNorthCarolina Greensboro MammalEvolution

The McLean Lab (<https://www.mclean-lab.org/>) at University of North Carolina Greensboro (<http://www.uncg.edu/>) is recruiting motivated graduate students at the MS level to investigate evolution of small mammals in the Eastern North America. We are especially interested in the merger of population geographic/phylogeographic datasets with phenotypic and life history trait information (e.g., pelage color, litter size, breeding phenology) that allows reconstruction of mammalian adaptation and global change response in ecosystems ranging from Appalachian Mountains to coastal savannahs of the Deep South.

Research in the McLean lab is integrative and combines historic data streams (e.g., museum specimens) with new field surveys and collections to understand environment-life history dynamics and the potential for change in traits like those listed above, through space and time. Our work is highly integrative, and we value lab members with broad interests in natural history, mammalogy, specimen-based research, spatial analysis, and biodiversity data analysis. Prospective applicants will be encouraged to develop research projects that leverage one or more of these tools.

Successful applicants will begin graduate school in August 2021, with the option to work as a field or lab technician on field projects here in the beautiful mountains of NC during summer 2021. To inquire about positions, email Bryan McLean ([b\\_mclean@uncg.edu](mailto:b_mclean@uncg.edu)) as soon as possible and describe: a) your areas of interest and passion in mammalogy and evolution, including any previous research experiences; 2) how these may fit with ongoing research in the McLean lab; and 3) a current CV.

The deadline for application to the Masters in Biology Program is 1 April 2021. Students accepted into the program at UNCG will be provided a tuition waiver and a competitive stipend. Additional competitive fellowships may also be available by specific application. \*Note that application does NOT require GRE scores, but applicants with a first language other than English must submit scores on the Test of English as a Foreign



Language (TOEFL).

For more information about the UNCG Graduate Program in Biology, please visit:

<https://biology.uncg.edu/graduate/mission/> . We are located in the beautiful Piedmont of NC with easy access to the Southern Appalachian Mountains. For more information about the HIGH quality of life and LOW cost of living in Greensboro, please visit:

<https://www.greensboro-nc.gov/i-want-to-realestate.usnews.com/places/north-carolina/greensboro> Bryan McLean Assistant Professor University of North Carolina Greensboro Greensboro, NC 27402 [www.mclean-lab.org](http://www.mclean-lab.org) Bryan McLean <b\_mclean@uncg.edu>

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## UNorthDakota WildlifeGenomicsPaleoecology

U. North Dakota. WildlifeGenomicsPaleoecology.

The Laboratory of Evolutionary and Forensic Genetics at the University of North Dakota ([www.und.edu](http://www.und.edu)) is inviting applications from highly motivated students who pursue a PhD degree. MS candidates will be also considered.

Students will be engaged in a project on the historic, current, and future status of bison herds from biological, ecological, and cultural perspectives. This cross-disciplinary project represents an opportunity to get intensive training in the methods of ancient and modern DNA analyses including high-throughput genome sequencing, stable isotope studies, computational analysis and statistical modelling. The examples of our recent publications: Ovchinnikov et al. Diversity and Origin of the Feral Horses in Theodore Roosevelt National Park. PLoS One, 2018, 13(8); Davies et al. Isotopic Paleoecology of Northern Great Plains Bison during the Holocene. Scientific Reports, 2019, 9(1): 16637. Although the wildlife project is focused on bison genetics and paleoecology, we have opportunities to develop new projects on computational analysis of big oral and environmental microbiome data as well as on genomics and microbiome study of human migrations and evolution.

Candidates should demonstrate motivation for hard laboratory work and strong interest in genomics and computational biology. Preference will be given to candidates with a proven record of computational analysis and bioinformatics skills. Additional experience in se-

quencing technologies is a plus.

If you are interested, you need to apply to the University of North Dakota Biology Graduate Program using the regular procedure. Requirements and How to Apply procedure can be found in the UND Biology Graduate School websites:

<https://und.edu/programs/biology-phd/-requirements.html> <https://und.edu/admissions/-graduate/apply.html> The additional information can be also found in the Biology Department website:

<https://arts-sciences.und.edu/academics/biology/> The position starts in August 2021. To receive full consideration, the Biology Graduate Program needs to receive your application and required materials by February 15, 2021 for priority consideration.

Potential graduate students are also encouraged to contact Dr. Igor Ovchinnikov.

Contact information:

Dr. Igor Ovchinnikov Associate Professor Lab. of Evolutionary and Forensic Genetics Department of Biology University of North Dakota

Email: [igor.ovtchinnikov@und.edu](mailto:igor.ovtchinnikov@und.edu)

“Ovtchinnikov, Igor” <[igor.ovtchinnikov@und.edu](mailto:igor.ovtchinnikov@und.edu)>

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## UNottingham EvolutionOfMimicry

The evolution of mimicry in a changing world: how shifting bumblebee communities affect selection on a colour-polymorphic hoverfly

Applicants are invited for a fully-funded PhD studentship at the University of Nottingham (UK), in collaboration with the Centre for Ecology and Hydrology, starting Sep/Oct 2021. Deadline for application: January 13th 2021. Funding is now available for both UK and international students.

Link: <http://www.envision-dtp.org/2020/the-evolution-of-mimicry-in-a-changing-world-how-shifting-bumblebee-communities-affect-selection-on-a-colour-polymorphic-hoverfly-2/> Complex species interactions make the impacts of global environmental change difficult to foresee. Understanding the ecological and evolutionary relationships between species, and the way that the fitness of a species is affected by changes in community composition, is essential to predict shifts in species distributions and patterns of biodiversity.

In this project, we will investigate a fascinating interaction between an important group of pollinators and their charismatic parasite, with the ultimate aim of predicting the consequences of environmental change for the species concerned. Along the way, we will gain some valuable insights into the genetic origins of Batesian mimicry. The project involves an unusual combination of practical ecology and behaviour, species distribution modelling, and cutting-edge genomics.

Larvae of the hoverfly *Volucella bombylans* infest the nests of bumblebees. They eat bumblebee brood cells, pollen stores and detritus, but the impact on host fitness, and hence the degree of parasitism, is not known. Adult flies display a striking colour polymorphism, with individuals resembling different bumblebee species. We think they are Batesian mimics, fooling predators into thinking that palatable and harmless flies are heavily-defended and unpalatable. In the era of species distribution modelling and genome sequencing, this system provides unique opportunities to address two fascinating research questions. Firstly, how will global environmental change affect the relationship between a putative parasite and its hosts, when those hosts also act as a model for mimicry? Secondly, which genes are responsible for Batesian mimicry, and how is selection on those genes influenced by variation in community composition?

The successful applicant will conduct field sampling, laboratory experiments, genomic analysis and species distribution modelling, with the focus of the work being shaped by the student's interests. They will work with a cross-disciplinary supervisory team, and receive training in entomology, bioinformatics and modelling.

Essential: The student should hold at least a good undergraduate degree or equivalent in a biological science; they should have experience of ecology, evolutionary biology and genetics; they should have practical research project experience and laboratory skills.

Highly desirable: A Masters-level qualification in a relevant subject area; full UK-compatible driving licence; experience of statistical/mathematical modelling; experience of practical entomology; experience of PCR and other basic molecular laboratory skills.

If you are interested, please email Dr Tom Reader, School of Life Sciences, University of Nottingham, Nottingham, NG7 2RD; tom.reader@nottingham.ac.uk.

Dr Tom Reader (he/him/his) Associate Professor School of Life Sciences University Park University of Nottingham NG7 2RD Tel. 0115 9513213 Web: ecology.nottingham.ac.uk/tomreader

Tom Reader <Tom.Reader@nottingham.ac.uk>

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## UReading PlantDiseaseEpidemiologyEvolution

PhD studentship, University of Reading, UK, open to UK, EU, and international students. Deadline 8 February 2021.

Title: "Smart control of crop diseases: how can we best combine fungicides and plant resistance genes?"

About the project:

This multidisciplinary PhD project will investigate the epidemiology and evolutionary adaptation of the major fungal pathogen of wheat *Zymoseptoria tritici* (Zt) to control measures – fungicides and disease resistance genes, thereby using evolutionary biology to tackle one of the most urgent problems in agriculture. The methodology combines mathematical modelling, machine learning and field experimentation.

Zt causes septoria tritici blotch (STB), the most damaging disease of wheat in Europe and one of the largest constraints on wheat production globally. The disease is especially serious in the UK because of conducive climatic conditions. It is becoming increasingly difficult to control STB, because Zt is capable of rapidly evolving resistance to fungicides and adapting to disease-resistant wheat varieties and environmental conditions. It is recognized that no single control measure is durable in the face of the pathogen's notorious adaptive capacity, hence the two key control methods - fungicides and disease resistance genes in wheat - need to be combined in a manner that optimizes not only control efficacy in the short term, but also their sustainability in the longer term. This interdisciplinary project will make a major contribution to this goal using a powerful combination of large-scale field experimentation with novel high-throughput phenotyping techniques, bioinformatic analyses, state-of-the-art machine learning and mathematical modelling approaches.

In the first phase, a field experiment will be conducted during two consecutive years to investigate the STB epidemic development in a large number of different wheat genotypes. The amount of disease will be measured using both the conventional visual assessments and novel digital phenotyping approaches, and the daily weather data will be recorded. The data on epidemic development will be linked to genomic data already available for the wheat population under study, and in this way you

are likely to identify new genetic bases of STB resistance in wheat. In the second phase, powerful machine learning techniques will be used to combine the three types of data (disease measurements, weather data and wheat genomic data) and construct a model predicting the seasonal STB epidemic development. Finally, in the third phase of the project, the outcomes of the two previous phases will be incorporated into a mathematical modelling framework (epidemiological/evolutionary model) that describes how the pathogen population changes over time in its interaction with the host population of wheat plants. The model will incorporate the effect of two control measures: fungicides and STB resistance genes in wheat. This will allow you to optimize choices of fungicide treatment programmes and disease-resistant wheat cultivars that maximize net benefit of growers over a short term of a single growing season. You will then be able to compare the outcomes with the predicted net benefit over a longer term of a number of consecutive growing seasons, taking into account disease levels, weather variables and wheat genomes.

#### Training opportunities:

The student will acquire inter-disciplinary skills in designing and conducting large-scale field experiments with crop pathogens, acquiring large datasets with the help of novel digital phenotyping approaches, use machine learning and mathematical modelling to extract knowledge from data. The student will receive extensive training by the supervisory team in computer programming to handle large and complex data sets and conduct mathematical and computational modelling using Linux, Python and R. The student will have access to advanced computational infrastructures, such as the high-performance computing clusters available at Aberystwyth University, and via Supercomputing Wales, and receive appropriate training in their usage. The student will be embedded within the extensive international collaborative network of the supervisory team that includes plant pathologists, genomics experts, modellers and practice-oriented researchers, enabling the student to make use of these diverse sets of expertise. A three-month placement with Syngenta will provide the student with the industry's perspective on the project's outcomes, expanding the range of possible employment options after the completion of the project. The unique combination of empirical, mathematical and computational skills as well as a valuable professional network developed in the course of the project will increase the student's chances to find a high-profile job in academia, governmental agencies or industry.

#### Student profile:



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## UTasmania SexChromosomeEvolution

Graduate 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.

This collaborative research project is funded by an Australian Research Council Discovery Project grant awarded to the 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 is expected to have knowledge in molecular cytogenetics (e.g. cell culture, chromosome preparation, FISH), and genomics (e.g. genomic data mining, experience and familiarisation with sequence analyses and NGS technology). Knowledge of chromosome biology and sex determination is also 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 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 a University of Tasmania scholarship round (applications close 30 September). 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 <https://www.utas.edu.au/research/degrees> Eligibility

The University of Tasmania scholarships are open to all nationalities. However, overseas candidates for whom English is not a first language must secure an IELTS score of 7.0 and have no individual score falling below 6.5 to satisfy our English language requirements. More information and equivalent scores under different schemes (e.g. TOEFL) can be found at <https://www.utas.edu.au/research/degrees/what-is-a-research-degree> 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 [chris.burridge@utas.edu.au](mailto:chris.burridge@utas.edu.au) and [tariq.ezaz@canberra.edu.au](mailto:tariq.ezaz@canberra.edu.au)

Chris Burridge | Associate Professor, Molecular Ecology & Evolution

School of Natural Sciences | University of Tasmania | Private Bag 55 | Hobart | Tasmania 7001 | Australia

Room 320a Life Sciences Building | Ph +61 3 6226 7653 | Fax +61 3 6226 2698 |

[https://rmdb.research.utas.edu.au/public/rmdb/-q/indiv\\_detail\\_warp\\_trans/3975#research-tab-5](https://rmdb.research.utas.edu.au/public/rmdb/-q/indiv_detail_warp_trans/3975#research-tab-5)

<http://scholar.google.com.au/citations?user==3D4cYH8ZYAAAAJ&hl=3Den>

[evogentas.org](http://evogentas.org)

["chris.burridge@utas.edu.au"](mailto:chris.burridge@utas.edu.au)

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## WesternSydneyU BacterialEvolutionAndDiagnostics

PhD scholarship position at the Hawkesbury Institute for the Environment, Western Sydney University, Australia

Project title: Boosting diagnostics for plant production industries: using *Xanthomonas* as a model organism for increasing bacterial diagnostic capacity

Project description: Identifying sources of bacterial infection of crop plants is essential to the maintenance of a safe food supply and the protection of Australia's food sources from exotic disease incursions. In recent years, the use of genomics has revolutionised source identification during outbreaks of pathogenic bacteria. Comparison of bacterial genomes with phylogenetic approaches can provide high-quality evidence that two or more infections from different locations are linked by a common source, however, the analysis required for this is time-consuming and not user-friendly. Furthermore, the incorporation of new data often requires a complete reanalysis, which is highly undesirable in outbreak situations where samples are processed in small batches over an extended time-period. An alternative to phylogenetics is the use of defined multilocus sequence typing (MLST) schemes based on thousands of gene sequences identified from whole genomes. MLST-based methods are rapid, comparable to phylogenetics in accuracy, and importantly, allow the incorporation of new data without complete reanalysis of the entire dataset.—

This project will construct genome-wide MLST schemes for important bacterial pathogens of the genus *Xanthomonas*, which cause plant diseases that reduce the quantity and quality of many fruit, vegetable, grain and fibre crops and are a significant risk to agriculture in Australia. The student will construct, validate and compare these schemes to phylogenetic methods with real-world datasets and work closely with molecular epidemiologists and bacteriologists at the NSW Department of Primary Industries to further analyse the genome sequences of several significant *Xanthomonas* species. The student will aim to improve the understanding of *Xanthomonas* strains and types, and correlate relationships identified

by genome sequencing with classical epidemiological, genotypical and phenotypical data.—

This project is part of a larger project funded through the GRDC as part of the Rural R&D for profit program. The results of this work will have real world implications for farmers, scientists and biosecurity and will train a Higher Degree Research student at the forefront of research relevant to plant health and biosecurity.—

More details and link to application at: [https://www.westernsydney.edu.au/schools/grs/-scholarships/current\\_scholarships/current\\_scholarships/-boosting\\_diagnostics\\_for\\_plant\\_production\\_industries\\_using\\_xanthomonas\\_as\\_a\\_model\\_organism\\_for\\_increasing\\_bacterial\\_diagnostics](https://www.westernsydney.edu.au/schools/grs/-scholarships/current_scholarships/current_scholarships/-boosting_diagnostics_for_plant_production_industries_using_xanthomonas_as_a_model_organism_for_increasing_bacterial_diagnostics)—

What does the PhD scholarship provide?— - Domestic students will receive a tax-free stipend of \$30,000 per annum for 3.5 years and a funded place in the doctoral degree; - International students will receive a tax-free stipend of \$30,000 per annum for 3.5 years. Those with a strong track record will receive a tuition fee waiver; - All International students are required to hold an Overseas Student Health Care (OSHC) policy covering the duration of their studies in Australia. The HIE will provide funding for a single Overseas Student Health Cover policy; - The project will also provide substantial benefits in terms of additional operational funding for project fieldwork and data collection, and travel and conference attendance. —

Eligibility criteria: We welcome applicants from a range of backgrounds who are keen to apply their skills to the project topic. The successful applicant should:— - Hold qualifications and experience equal to one of the following (i) an Australian Bachelor Honours degree, (ii) a coursework Masters with at least a 25% research component, (iii) a Master of research degree or (iv) equivalent overseas qualifications; —Demonstrate strong academic performance in microbiology, plant pathology and/or molecular biology; - Have proven skills in biological sequence data analysis; - Be enthusiastic and highly motivated to undertake further study at an advanced level; - Possess excellent written and verbal communication skills; - International applicants must demonstrate English language proficiency.

How to apply? 1. Contact Associate Professor Markus Riegler <m.riegler@westernsydney.edu.au>, Dr Toni Chapman <toni.chapman@dpi.nsw.gov.au> or Dr Daniel Bogema <daniel.bogema@dpi.nsw.gov.au> to discuss your eligibility, the project requirements and your intention to apply.

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## ArizonaStateU NEONSamplePreparator

### NEON Biorepository Sample Preparator

The School of Life Sciences at Arizona State University is seeking a Sample Preparator (Research Technician) for the National Ecological Observatory Network (NEON) Biorepository. NEON is expected to run for 30 years. For each project year, the NEON Biorepository at ASU will receive, process, store, and make available for research an average of 100,000 samples from more than 80 sites across the United States. We will facilitate this by creating a data portal to support discovery and tracking of sample occurrences and sample data linkages, sample transactions, and research use.

The NEON Sample Preparator will make critical contributions to the project through a variety of curatorial support and sample or specimen preparation and data publication tasks; focused mainly but not exclusively on mammal study skin and alcohol preparations and specimen digitization (~85%); and herbarium voucher preparations and digitization (~15%). If the position is funded beyond the initial 6-month period, then position contributions may shift to mammal study skin and alcohol preparations and specimen digitization (~75%); and herbarium voucher preparations and digitization (~20%), and sorting, databasing and imaging of select invertebrate samples (~5%). The position therefore requires a relatively broad scope of research collection and sample preparation and data publication skills. Critical skills will revolve around preparing (small) mammal skins, skulls, skeletons, tissues, organs, and other partial samples, taking standard measurements, and other procedures that will maximize the long-term suitability of these NEON samples for varied research purposes. Candidates who consider themselves well experienced or highly motivated to acquire these skills and hence complement the existing strengths of the NEON Bioreposi-

tory team, are strongly encouraged to apply. An ability to develop new data products to leverage the research potential of NEON Biorepository samples with the greater community is highly desired.

Direct link for more information and how to apply: [https://sjobs.brassring.com/TGnewUI/Search/Home/Home?partnerid=25620&siteid=5494#jobDetails=4164905\\_5494](https://sjobs.brassring.com/TGnewUI/Search/Home/Home?partnerid=25620&siteid=5494#jobDetails=4164905_5494) Or go to: <https://cfo.asu.edu/applicant>  
Job code: 65101BR

Inquiries: [nico.franz@asu.edu](mailto:nico.franz@asu.edu) (website: <https://research.asu.edu/profile/1804402>)

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

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## BritishColumbia ResTech MarineEvolution

Aquatic Research and Animal Care Technician: The Bamfield Marine Sciences Centre (BMSC) is searching for a team player passionate about marine life, ecology and interested in making meaningful contributions that will support life-changing exploration and discovery in coastal and marine environments. For almost 50 years the BMSC has supported year-round research and education on the west coast of Vancouver Island, British Columbia.

Job Profile: This is a regular, full-time position. Reporting to the senior Research Coordinator and working closely with the Animal Care Coordinator, the Aquatic Research and Animal Care technician will be responsible for assisting with the day-to-day provision of research services and the ethical care of animals used in research. Responsibilities include assisting the animal care committee with administration, including regular communication of CCAC regulatory requirements and research permit compliance to researchers and instructors. The position involves orienting new researchers, facilitating collaborative research, informing users of

available resources, and assisting with the maintenance and organization of aquatic and research equipment, spaces, and inventory. The position involves working collaboratively with the organization, including participating in strategic initiatives that enhance community engagement and partnerships for the BMSC as well as supporting clients.

For more info on the position and living in Bamfield, British Columbia: <http://www.bamfieldmsc.com/-about/bmsc-overview/employment-opportunities/-detail/aquatic-research-and-animal-care-technician-at-the-bmsc> Interested applicants can submit a cover letter, CV and the names of three references to Dr. Sean Rogers, BMSC Director (director@bamfieldmsc.com)

Review of applications by the search committee will begin on Jan 5, 2021 and continue until the position is filled.

Sean Rogers <srogers@ucalgary.ca>

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## ClemsonU HerbariumCurator

Herbarium Curator and Lecturer, Clemson University

The Department of Biological Sciences seeks applicants for a 12-month, full-time Herbarium Curator and Lecturer. This is a renewable, non-tenure track position with opportunity for promotion.

The successful applicant will serve as Curator of the Clemson University Herbarium (<https://www.clemson.edu/science/departments/biosci/-research/herbarium/>). The regionally focused collection includes approximately 90,000 specimens of vascular plants and lichens that is the second largest herbarium collection in South Carolina, and part of the Bob and Betsy Campbell Museum of Natural History (<https://www.clemson.edu/science/departments/-biosci/research/museum/index.html>).

### POSITION RESPONSIBILITIES:

Responsibilities as a Curator will include inventory and loan management, specimen preparation, repair, and maintenance, and maintenance of the Herbarium digital collection information system and library. Responsibilities as a Lecturer will include teaching 1-2 lecture courses with associated labs per year on topics including plant taxonomy/systematics and field-based botany, as well as supporting inquiry-based learning related to the Herbarium.

The Herbarium Curator/Lecturer will also collaborate with the Curator of the Vertebrate Collection to promote the discovery, learning, and engagement missions of the Museum of Natural History through outreach associated with plant identification, public presentations, tours, and special events. The Curator/Lecturer will supervise students and volunteers, and work closely with faculty, students, and staff to facilitate use of the collection as a resource for research and education.

The Herbarium moved into newly renovated space in Summer 2020, providing an expanded location for the collection and its use by researchers and students. The Curator/Lecturer will help develop new exhibits that promote the use of the collection for discovery, learning, and engagement. For more information on the new herbarium renovation, see: <https://newsstand.clemson.edu/mediarelations/-renovation-of-clemsons-herbarium-provides-new-home-for-global-collection-of-priceless-specimens/>  
QUALIFICATIONS:

Successful candidates must have an M.S. in Botany, Biology, or a related discipline at the time of appointment, with a Ph.D. preferred. Ideal candidates will demonstrate significant herbarium curatorial experience, strong computing skills (including experience working with database management systems and GIS), expertise in vascular plant identification, successful experience teaching university-level biology lecture and laboratory courses, and a commitment to promoting and enhancing diversity and inclusion. Knowledge of the flora of the Southeastern US is preferred, as is experience with specimen digitization, collections information systems and standards (e.g., Symbiota, Darwin Core, GBIF), georeferencing, and digital collection access management.

### HOW TO APPLY:

Apply today at: <https://apply.interfolio.com/74178>  
Please submit a (1) cover letter, (2) curriculum vitae, (3) statement of curatorial/collection management experience, (4) statement of teaching philosophy, experience, and interests including strategies currently used or planned to foster diversity and inclusion, as well as strategies for integrating use of the herbarium in teaching, and (5) names and contact information for three professional references.

For full consideration, applications should be submitted by February 3, 2021. Review will continue until the position is filled.

Please contact Search Chair Rick Blob with questions (rblob@clemson.edu).

Matthew Koski Assistant Professor Clemson University Dept. of Biological Sciences he/him/they/them <https://>

[/koskimatt.wixsite.com/matthewhkoski](http://koskimatt.wixsite.com/matthewhkoski)  
Harold Koski <mkoski@clemsun.edu>

Matthew

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## ClemsonU HumanEvolution

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 2021. 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.

The Center for Human Genetics (<https://scienceweb.clemson.edu/chg/>) is housed in Self Regional Hall, a new 17,000-square-foot building located in Greenwood, South Carolina on 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 with excellent bioinformatics facilities and state-of-the-art molecular laboratories. The Center for Human Genetics and the Greenwood Genetic Center are well-equipped for genomics, proteomics and metabolomics research, including NovaSeq 6000 and PacBio Sequel II sequencers. Successful applicants 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 Greenville Health System. The home department will be determined by the fit of the applicant's research interests with the mission of one of the departments in the College of Science ([www.clemson.edu/science](http://www.clemson.edu/science)), including the Department of Genetics and Biochemistry ([www.clemson.edu/science/departments/genetics-biochemistry/index.html](http://www.clemson.edu/science/departments/genetics-biochemistry/index.html)), the Department of Mathematical Sciences ([www.clemson.edu/science/departments/mathematical-sciences/index.html](http://www.clemson.edu/science/departments/mathematical-sciences/index.html)) and the Department of Biological Sciences ([www.clemson.edu/science/departments/biosci/index.html](http://www.clemson.edu/science/departments/biosci/index.html)).

The University and Center for Human Genetics are 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 <http://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. Review of applications will begin on February 15, 2021 and continue until the position is filled.

Inquiries should be directed to Dr. Trudy Mackay (tmackay@clemsun.edu) Clemson University is an AA/EEO employer and does not discriminate against any person or group on the basis of age, color, disability, gender, pregnancy, national origin, race, religion, sexual orientation, veteran status or genetic information. Clemson University is building a culturally diverse faculty and staff committed to working in a multicultural environment.

TRUDY F. C. MACKAY, PhD, FRS

SELF FAMILY ENDOWED CHAIR OF HUMAN GENETICS DIRECTOR, CENTER FOR HUMAN GENETICS PROFESSOR OF GENETICS AND BIOCHEMISTRY Center for Human Genetics Clemson University

110 Self Regional Hall 114 Gregor Mendel Circle Greenwood, SC 29646

w 864-889-0522 c 919-604-6531

tmackay@clemsun.edu



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## ClemsonU PlantEvolutionaryBiology

Tenured Associate or Full Professor in Ecology and/or Evolutionary Biology

The Department of Biological Sciences at Clemson University invites applications at the Associate or Full Professor level for an Ecologist and/or Evolutionary Biologist, who addresses cutting-edge research questions, particularly in plant systems. Clemson University, the College of Science, and the Department of Biological Sciences are committed to building a community of inclusive excellence, where faculty scholars are dedicated to working and teaching in a multi-cultural environment (<http://www.clemson.edu/inclusion/>). We are supportive of the needs of dual career couples. For full consideration, please apply by March 15, 2021. Review of applications will begin immediately. The search will remain posted for applications until filled. The anticipated start-date is January 2022 or later.

We expect the candidate to bring an innovative and high-impact research program to Clemson while complementing existing and enhancing the Department's research strengths (<http://www.clemson.edu/biosci/>). The candidate will also contribute to the teaching mission of the department.

The Department of Biological Sciences is a founding member of the newly formed College of Science, a central player in both the university's strategic plan, ClemsonFORWARD (<https://www.clemson.edu/forward/>) and college's SciFORWARD plan (<https://www.clemson.edu/science/about/scienceforward.html>). The Department awards undergraduate and graduate degrees in Biological Sciences and Microbiology, and a graduate degree in Environmental Toxicology.

Located on Lake Hartwell in the foothills of the Blue Ridge Mountains, Clemson University is South Carolina's public land-grant University. As a Carnegie R1 Institution, the University has excellent research resources including the globally ranked Palmetto high performance computing cluster, the Clemson University Genomics and Bioinformatics Facility (including a NovaSeq and PacBio Sequel II), Center for Human Genetics, state-of-the-art light and electron microscopy, excellent greenhouse facilities, a multi-user analytical laboratory, and the Bob and Betsy Campbell Museum of Natural History (including an herbarium with 92,000

specimens of vascular plants in renovated space). Additional resources include: the South Carolina State Botanical Garden on Clemson's campus, the 17,500-acre Clemson Experimental Forest, and the Belle W. Baruch Institute of Coastal Ecology and Forest Science. There are many opportunities for collaboration across a wide group of partners on and off campus, including faculty in other departments in the College of Science as well as other colleges such as College of Agriculture, Forestry, and Life Sciences.

Qualifications Qualified candidates will have a PhD and tenure or equivalent at their current institution. They will also have with an excellent record and trajectory of accomplishment leading a successful academic, federally funded research program that includes graduating doctoral students, mentoring postdoctoral fellows, and fostering diversity and inclusion.

Application Instructions Applicants should submit the following items through <http://apply.interfolio.com/XXX>: (1) cover letter that includes a description of teaching interests and experience, why the applicant is interested in making a move at this point, and what draws the applicant to this position; (2) CV including at least three references for potential contact after initial review; (3) statement of research interests and future plans; (4) statement describing past experience and/or future plans to promote diversity and inclusion; and (5) up to three reprints in one PDF.

For inquiries about the position, please contact Christopher L. Parkinson, chair of the search committee ([viper@clemson.edu](mailto:viper@clemson.edu)).

Christopher L Parkinson <[viper@clemson.edu](mailto:viper@clemson.edu)>

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## CRITFC GenomicsLabSpecialist

Genomics Laboratory Specialist

Closing Date: Feb 28, 2021

The Columbia River Inter-Tribal Fish Commission (CRITFC) is seeking a Genomics Laboratory Specialist with experience in genetics/genomics methods and a strong background in molecular biology and genetics. The position is part of the Fishery Science Department and will be located at the Hagerman Fish Culture Experiment Station in Hagerman, ID. The employee will work under the Lead Geneticist, in association with CRITFC geneticists and technicians, as well as staff of the Fishery Science Department in Portland, OR. Efforts will focus

on developing, maintaining, and trouble-shooting lab protocols to generate empirical data to address questions related to conservation and recovery of steelhead, Chinook, sockeye, and coho salmon, white sturgeon, Pacific lamprey, and other fishes of the Columbia Basin. This role includes full/partial supervision and coordination of lab technicians and their duties.

<https://www.critfc.org/blog/jobs/genomics-laboratory-specialist/> Shawn Narum, PhD Lead Geneticist Columbia River Inter-Tribal Fish Commission 3059-F National Fish Hatchery Rd Hagerman ID 83332 Phone: 208-837-9096 x1120 Email: nars@critfc.org

Shawn Narum <nars@critfc.org>

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## DonanaBiolStation Seville EvolutionaryBiol

Junior Group Leader positions at Doñana Biological Station:

The Doñana Biological Station (Estación Biológica de Doñana, EBD; Seville, Spain) is seeking to incorporate Junior Group Leaders through the Ramón y Cajal program, financed by the Spanish government.

We are looking for researchers that have leadership skills and an excellent track record in evolutionary biology, conservation biology, ecology or global change. This opportunity is open to researchers of all nationalities, and we are particularly interested in cultural diversity. Candidates should have a PhD title obtained between January 1st 2010 and December 31st 2017. Contracts have a duration of 5 years and candidates are eligible to apply to permanent positions. Deadline for applications: January 31st 2021. Website for application: <https://www.ciencia.gob.es/portal/site/MICINN/-menuitem.dbc68b34d11ccb5d52feb801432ea0/-?vgnnextoid=8bad309550af5710VgnVCM1000001d04140aR6E&de=applications>

The Estación Biológica de Doñana is an institute of the Spanish National Research Council (CSIC). EBD has close to 200 employees, including 44 researchers, postdoctoral fellows, PhD students, field and lab technicians, and administrative personnel. EBD has several unique aspects: -EBD manages two field reserves, one within Doñana National Park (Huelva, Spain) and the other in the Sierra de Cazorla, both devoted to ecological and evolutionary research. -The field reserve in Doñana National Park is a Singular Scientific-Technical Infrastructure (ICTS-RBD) that

offers services and facilities to researchers around the world. -The institute, located in Seville, is equipped with six laboratories maintained by technical staff, that offer services to all researchers: Molecular Ecology, GIS and Remote Sensing, Chemical Ecology, Aquatic Ecology, Ecophysiology, Stable Isotopes. -The institute has also an Animal Experimentation Unit and a green house. This includes 11 walk-in climatic chambers and animal care facilities. Our Animal Welfare personnel train and conduct certification courses for our personnel. -The institute houses the second largest scientific collection in the country which focuses on vertebrates and includes almost 100,000 specimens. -We actively participate in MSc and PhD programs at the University of Seville and Pablo de Olavide University. We also host PhD students from many other national and international universities as well.

Despite the rich resources available to scientists at EBD, the main advantage of EBD is the quality of the researchers. Several of them are among the most cited researchers in their fields and are internationally recognized. EBD is currently looking to expand the number of investigators and lines of research through the recruitment of young, engaged and brilliant minds. EBD is welcoming researchers from all over the world.

If you need any additional information about the Estación Biológica de Doñana, please check <http://www.ebd.csic.es/inicio> or contact us at [proyectos@csic.es](mailto:proyectos@csic.es)

Carles Vila <carles.vila@ebd.csic.es>

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## DurhamU EvolutionaryBiology

The Department of Biosciences at Durham University seeks to appoint a talented individual to the role of Assistant Professor in Ecology or Evolutionary Biology. We welcome applications from those with research and teaching interests that are consistent with research priorities in the Department and whose research is complementary to other staff in the Ecology, Evolution and Environment research group. We are seeking applications from a broad range of talented applicants working in all areas of ecology and evolutionary biology, in particular those working in areas such as climate change, biodiversity, conservation, and/or natural capital/ecosystem services, consistent with our future strategy. The Department of Biosciences is consistently ranked in the top 5 UK Biological Sciences Departments in the Complete Uni-

versity Guide and was ranked 8th for Research Impact in REF2014.

For more information and to apply, see: [https://durham.taleo.net/careersection/-du\\_ext/jobdetail.ftl?job=20000884&tz=-GMT%2B00%3A00&tzname=Europe%2FLondon](https://durham.taleo.net/careersection/-du_ext/jobdetail.ftl?job=20000884&tz=-GMT%2B00%3A00&tzname=Europe%2FLondon)  
Jonathan Drury <jonathan.p.drury@gmail.com>

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## Edinburgh UK InsectQuantitativeGenetics

Hi,

We are looking for an ambitious post-graduate to work on the quantitative genetics platform DATA-BEAST for an insect breeding operation - a Knowledge Transfer Partnership between The Roslin Institute and Beta Bugs Ltd., at the Easter Bush Campus of University of Edinburgh. To learn more about Knowledge Transfer Partnership see <http://www.ktp-uk.org/graduates> The Opportunity:

The Roslin Institute is a world-class centre for research on management and improvement of populations (<http://roslin.ed.ac.uk>), while Beta Bugs Ltd. is the first dedicated insect genetics company (<http://betabugs.uk>), developing high-performance Black Soldier Fly genetics. Both organizations are based at the Easter Bush Campus, facilitating working across both organizations.

The Knowledge Transfer Partnership associate will work under the supervision of Dr. Gregor Gorjanc and Dr. Andreas Kranis at Roslin and Samuel Grainger and Dr. Thomas Farrugia at Beta Bugs.

The post comes with a significant training and travel budget for personal and professional development. The post is for 30 months with a possibility for longer-term employment (conditional on the success at this post).

Informal enquiries can be made to Gregor Gorjanc (Gregor.Gorjanc@roslin.ed.ac.uk) and Thomas Farrugia (thomas@betabugs.uk), while formal applications should be submitted through The University of Edinburgh website. [https://elxw.fa.em3.oraclecloud.com/hcmUI/-CandidateExperience/en/sites/CX\\_1001/job/358/-?utm\\_medium=jobshare](https://elxw.fa.em3.oraclecloud.com/hcmUI/-CandidateExperience/en/sites/CX_1001/job/358/-?utm_medium=jobshare) Your skills and attributes for success:

\* You are passionate about genetic management and improvement of populations and want to make a practical change.

\* You either come from the quantitative genetics and breeding background or computer science / data science / bioinformatics background with aspiration to learn application of the other background.

\* You are independent, organised and you thrive in collaboration with multidisciplinary teams working in a rapidly emerging sector.

\* Please inspect the call documentation regarding the essential and desirable knowledge, skills and experience needed for the post. [https://elxw.fa.em3.oraclecloud.com/hcmUI/-CandidateExperience/en/sites/CX\\_1001/job/358/-?utm\\_medium=jobshare](https://elxw.fa.em3.oraclecloud.com/hcmUI/-CandidateExperience/en/sites/CX_1001/job/358/-?utm_medium=jobshare) With regards!

University of Edinburgh Gregor Gorjanc, PhD Roslin Institute Chancellor's fellow in Easter Bush Data Driven Innovation for AgriTech Midlothian twitter: @GregorGorjanc EH25 9RG mail: gregor.gorjanc <at>roslin.ed.ac.uk Scotland, UK

Gregor Gorjanc <gregor.gorjanc@roslin.ed.ac.uk>

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## HungarianNatHistMuseum LabManager

Lab Manager position at the Hungarian Natural History Museum (Budapest) Molecular Taxonomy Laboratory.

Primarily for Hungarian speaking applicants

Direct link for more information and how to apply: <http://www.nhmus.hu/allas/laborvezeto> for additional information contact András Gubányi (gubanyi.andras@nhmus.hu)

Zoltán Fehér <feher.zoltan@nhmus.hu>

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## IllinoisStateMuseum DigitalAssets

The Illinois State Museum Society, Springfield IL, is hiring a Digital Assets Manager and research assistant in Anthropology.

<http://www.illinoisstatemuseum.org/-DigitalAssetsManager> Meredith Mahoney <mahoneymer@gmail.com>

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## IndianaStateU MammalianConservation

### Mammalian Vertebrate/Conservation Ecologist

The Department of Biology at Indiana State University (ISU) invites applications for a tenure track position focused on mammalian/vertebrate ecology and conservation. This position is available at the Assistant Professor level. Applicants should have a Ph.D. in biology or related areas, and demonstrated expertise in utilizing specific techniques from a wide array of disciplines, from molecules to ecosystems, to address research questions in ecology and/or evolution; an emphasis in cellular developmental, molecular, physiological, landscape and/or quantitative/computational techniques may also be considered. Postdoctoral experience (or equivalent) and experience working with bats is desirable. The ideal candidate will demonstrate their promise for a strong research agenda through their publication record and potential to secure external funding for their research program at ISU.

Once their research program is successfully established at ISU, the candidate will be expected to assume the position of Director of ISU's Center for Bat Research, Outreach, and Conservation (<http://www.isubatcenter.org/>). Therefore experience in leadership and conservation is desirable.

The successful candidate will participate in undergraduate (e.g. majors and/or non-majors) and graduate instruction, as well as, direct graduate students in the Department's doctoral and master's programs. Many opportunities exist for collaborative research within the Department.

All applicants must submit their application online at <https://jobs.indstate.edu/postings/32931>. Along with their application, candidates are required to submit a letter of interest, curriculum vitae, a statement of leadership philosophy, research accomplishments/interests, a statement of teaching philosophy/excellence, and three letters of reference. Arrange for three confidential letters of recommendation to be submitted as part of the online application process. Please note that the references you provide on your application will receive a notification request for a recommendation letter immediately.

Review of applications will begin February 15, 2021, and will continue until the position is filled. Inquiries

should be directed to Rusty Gonser, Search Committee Chair ([rusty.gonser@indstate.edu](mailto:rusty.gonser@indstate.edu)).

ISU welcomes diversity and encourages applications from women and minorities. ISU seeks to recruit and retain a diverse workforce as a strategic priority and as a reflection of our diverse student body and our commitment to inclusive excellence. The university has been named a Green College by the Princeton Review; progressive initiatives include a community garden, car-share program, local food options on campus, and a Climate Action Plan. Terre Haute, which sits just east of the Wabash River, is a major regional center for health care, higher education, industry, and the arts.

Indiana State University is an Equal Opportunity/Affirmative Action employer. All are encouraged to apply including women, minorities, individuals with disabilities and protected veterans.

Rusty Gonser Professor, Department of Biology Director, The Center for Genomic Advocacy NCAA Faculty Athletic Representative Affiliate Faculty, Rich and Robin Porter Cancer Research Center Indiana State University Terre Haute, IN 47809

Rusty Gonser <[Rusty.Gonser@indstate.edu](mailto:Rusty.Gonser@indstate.edu)>

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## KU Leuven EvolutionaryGenomics Reminder

At the KU Leuven and the Royal Museum for Central Africa (Belgium) we have an opening for a 50% tenure track Assistant Professor and 50% work leader in cichlid evolutionary biology (evolutionary genomics) Application deadline is 01 February 2021 Starting date is September 2021

The Department of Biology, Division of Ecology, Evolution & Biodiversity Conservation at KU Leuven and the Section Vertebrates of the Royal Museum for Central Africa (RMCA) jointly offer a full-time position (each with an appointment of 50 %). We are looking for candidates with an excellent research record and educational competence in the field of biology at the intersection of taxonomy and evolution of aquatic vertebrate radiations.

Duties Research You develop a research program at an international level in the evolutionary history of African cichlid fish radiations using an integrative approach combining morphology, ecology and genomics, within the framework of a FED-tWIN collaboration between

KU Leuven and the Royal Museum for Central Africa (Project CichlidEcoEvo: Eco-evolutionary relationships in African cichlid radiations). The focus of this research profile is on the study of the cichlids of the Great African lakes as a model group for evolutionary research in Vertebrates.

The research must tie in with the ongoing research programme that focuses on Lake Edward and its nearby systems of lakes Kivu and Albert. On the mid and long term, you are expected to develop research avenues on the fish radiations of other African lakes and river systems.

You develop a research group in line with the strategy outlined in the FED-tWIN research profile and in synergy with research groups at KU Leuven and the RMCA. This FED-tWIN research profile specifically aims at developing a strong scientific collaboration between KU Leuven and RMCA.

You publish at the highest scientific level in the domain, you are able to obtain competitive financing, you develop international cooperation and you supervise master and PhD students at an international level.

Teaching You provide high-quality education in the domain of vertebrate biology, phylogeny, evolution and genomics, within the bachelor and master of Biology at the KU Leuven, with a clear commitment to the quality of the programme as a whole. You also contribute to the pedagogical project of the faculty and university by supervising bachelor projects and master theses and as a promoter of PhD students. You develop your educational project in accordance with the vision of KU Leuven on activating and researched-based education and make use of the opportunities for the educational professionalization offered by the faculty and the university.

Services Service provision is an important aspect of this FED-tWIN profile. This includes science management, science outreach, accommodating interns and visiting scientists, organising and/or contributing to training programmes, and answering questions from the general public. Specifically for the RMCA it also comprises the supervision of students of partner institutes in Africa, scientific advice for the set-up of permanent and temporary exhibitions, the further development of the rich fish and tissue collections, and contributing to the management of the associated databases, including genomic data.

Profile You have a PhD in biological or environmental sciences, obtained at the earliest 12 years before the submission date of the job application. The 12-year period is extended by one year for each maternity, parental

and adoption leave, and for each long-term sick leave of yourself or your immediate family.

You have a strong research curriculum within the domain of biology, at the intersection of taxonomy and evolution of aquatic vertebrate radiations, that addresses fundamental research topics using a genomic, morphometric and phylogenetic toolbox. Expertise in the study of the African cichlid fish diversity is a bonus. The quality of your research is apparent from publications in leading international journals in the field. International research experience is a plus. You should have experience with field work and collection-based research, preferably on African fishes, and prepared to organize and conduct field work in Africa.

You have demonstrable qualities for academic education; educational experience is a plus. You have organizational skills and are collegial. You also have managerial capacities in an academic context.

Proficiency in English is required. The official administrative language at KU Leuven is Dutch. If you do not speak Dutch (or do not speak it fluently) at the start of your employment, KU Leuven will provide language training to enable you to take part in administrative meetings. Before taking on teaching in Dutch or English, you will be given the opportunity to learn Dutch or English, up to the required standard.

Offer Within the FED-tWIN framework, KU Leuven offers a 50% appointment as

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## MaxPlanck Director EvolutionaryBiology

The MPI for Evolutionary Biology in Plön, <https://www.evolbio.mpg.de>, calls for applications or nominations for a

Max Planck Director in any area of Evolutionary Biology

We seek an outstanding individual to establish a new Department. The successful candidate will have a record of scientific and scholarly excellence, engage in creative, innovative and ground-breaking science, and articulate

a visionary research programme. You will enjoy full scientific freedom, exceptional long-term funding, outstanding infrastructure and a high level of administrative support.

Our institute enjoys rapid growth and currently consists of three departments (with several integrated research groups) and four Max Planck Research groups. Together with our partner university in Kiel we are a major hub of evolutionary research in Germany, with programs in research and post graduate training.

A virtual search symposium to discuss new directions and meet potential candidates will take place on April 29th -30th, 2021.

The Max Planck Society strives for gender equality and welcomes nominations of candidates with diverse backgrounds. We actively encourage nominations of persons with disabilities.

To nominate an outstanding scientist, please provide a letter of support. For applications, please send a letter of motivation including a two-page research proposal, a CV, a publication list and up to five selected publications. The deadline for applications is February 24th, 2021 and these should be sent to Maren Lehmann, lehmann@evolbio.mpg.de

Nominations and applications will be treated with strictest confidentiality.

Arne Traulsen <traulsen@evolbio.mpg.de>

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## Medellin Colombia MolecularEvolBiology

Dear all,

A research position in molecular biology is available at Vidarium'VNutrition, Health and Wellness Research Center in Medellin (Colombia). Applicants should have at least a master'Âs degree and three years of research experience in molecular biology. The recruited candidate will have to formulate and execute research projects, manipulate biological samples, analyze biological data, including data obtained from next-generation sequencing, elaborate reports and write scientific articles, participate in the training of students and researchers, and establish interdisciplinary and inter-institutional research teams as well. The recruited candidate must be autonomous and able to work in groups.

Interested applicants must send applications through

[https://jobs.nutresa.com/job/Medell%C3%ADn-Investigador%28a%29-Servicios-Nutresa-S\\_A\\_S-Medell%C3%ADn-ANT/702441300/](https://jobs.nutresa.com/job/Medell%C3%ADn-Investigador%28a%29-Servicios-Nutresa-S_A_S-Medell%C3%ADn-ANT/702441300/) (via the green button: “\*Enviar candidature \*\*ahora\*”, send application now). Applications can be in English or Spanish.

The deadline for application is January 25th 2021.

Vidarium is a dynamic research group with young researchers that focus on understanding and modulating obesity and related cardiometabolic disorders in three research arenas: gut microbiota, oxidative stress and food components. For more information, please visit [www.vidarium.org/en](http://www.vidarium.org/en) or contact Dr. Juan S. Escobar at [jsescobar@serviciosnutresa.com](mailto:jsescobar@serviciosnutresa.com).

Juan S. Escobar, PhD [jsescobar@serviciosnutresa.com](mailto:jsescobar@serviciosnutresa.com)  
Vidarium'XNutrition, Health and Wellness Research Center Calle 8 sur N 50-67 Medellin - Colombia (+57-4) 285.66.00 ext. 44508

Juan Sebastian Escobar Restrepo  
<[jsescobar@serviciosnutresa.com](mailto:jsescobar@serviciosnutresa.com)>

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## MortonArboretum Chicago ResAssist BioinformaticsGenomics

<<Research Assistant (RA) in Tree Conservation Biology, Emphasis in Bioinformatics and Genomics>>

Are you interested in using genomic data, bioinformatics, simulations, and ecology for conservation? The Hoban Lab at The Morton Arboretum is hiring a two-year Research Assistant in Tree Conservation Biology. We seek to understand dynamics and adaptation of species, communities, and genes over time (especially during environmental change), and to develop evidence-based conservation actions. A Bachelor's degree is required; a Master's degree, or Bachelor's plus work experience, is preferred. Applicants should have experience with bioinformatic processing of next generation sequencing data (e.g. RADseq/GBS), computer programming or R, and/or computational simulations (e.g. SimCoal, Slim, etc.). Preferred experience includes genetic data analysis and interpretation. Experience teaching these skills to others is a plus. \*\*Note that this description is more detailed than what is shown on the application website.

Research Assistants (RAs) at The Morton Arboretum are involved in all aspects of research: designing studies, planning and executing work, utilizing a variety

of scientific approaches, testing protocols, performing analysis, reading literature, interpreting results, and editing manuscripts. The Morton Arboretum strongly emphasizes professional development. There will be opportunities to collaborate on scientific publications, present research at scientific meetings, and spend time building new skills. Three of four past Hoban Lab RAs are now in graduate school at top-tier universities, and the other is a laboratory manager and team leader for an international conservation NGO.

This position is full time, term-limited (approx. 24 months), and grant-funded. The applicant should be enthusiastic, curious, well-organized, passionate for plant conservation and genomics, persistent, and self-motivated. They should be able to work without constant supervision, quickly learn new skills, solve problems, communicate clearly in person and electronically, and cooperate with others in a team environment. Very strong attention to detail and meticulous record keeping (e.g. lab notebooks, coding) is essential.

APPLY HERE: <https://www.mortonarb.org/join-support/working-arboretum/open-positions>. Please explain your fit for the position and describe your experience in one or more of the following in your application cover letter. Also, we have several open positions at The Morton; state that you are applying for the RA in Tree Conservation Biology.

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Planning informatic and/or laboratory activities and keeping detailed lab or digital code notebook; organizing samples or data from multiple projects -

Experience in a managing NGS and/or microsatellite data, from raw files to analysis -

Use of statistical software (SAS, JMP, STATA, R, etc.)

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Use of simulation software, and which kind -

Computer programming including writing and troubleshooting code; translating biological models into code; genomic data analysis -

Interpreting genetic data in a conservation context -

Writing; literature search; meta-analysis or systematic reviews; writing reports

Review of applications will begin immediately. The position will start as soon as possible but at latest August 1st. We are open to remote work for at least part of the first year due to the covid pandemic. If you have questions please contact Sean Hoban (\*shoban@mortonarb.org\*). The Morton Arboretum is a world renowned botanic garden and plant science research institute with a re-

search department of 30+ scientists, a highly collegial and supportive atmosphere, a strong emphasis on work life balance, a research building embedded in 1800 acres of forest and gardens, close proximity to Chicago, and a mission driven focus. -

Sean Hoban <shoban@mortonarb.org>

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## MuensterGermany MicrobePlantHerbivoreEvolution

The Institute for Evolution and Biodiversity at the University of Münster, Germany, invites applications for a Junior Group Leader Wissenschaftliche/r Mitarbeiter/in (Salary level TV-L E13, 100%)

in the Plant Adaptation-in-Action group, headed by Prof Shuqing Xu (<https://www.uni-muenster.de/Evolution/-plantadapt/people/shuqingxu.shtml>). The successful candidate may start as soon as possible, preferably before May 2021. The salary will initially be provided for three years, with possibility of extension for another three years. Plants are living in a microbial world and with the threat of herbivores. However, it remains unclear how herbivores and microbes jointly shape plant evolution in nature. In this DFG-funded project, the candidate will lead a team in the Plant Adaptation-in-Action group to address this challenging question using an interdisciplinary approach.

During the course of the project, the candidate will mature his/her scientific skills and develop independence in project planning and management skills. In addition, the candidate will gain the opportunity to improve their leadership skills by leading a research team consisting of one PhD student and several MSc and BSc students. The position serves as a stepping-stone for the candidate to pursue a faculty position.

Requirements: We are looking for a highly motivated researcher with a doctoral degree, or equivalent thereof, in biology, evolutionary genetics, bioinformatics or computer science. The candidate is expected to design, conduct and organize large scale field experiments and analyse large amount of next generation sequencing data, in particular, metagenomic data, with high degree of independence. Thus, a background in bioinformatics, evolutionary genetics and metagenomics is required. Applicants must demonstrate experience in statistics, metagenomics, data analysis and microbiology. Experience with field work, plant-microbe interactions or plant-herbivore interactions are a plus. Our group con-

sists of people of various nationalities and teamwork is essential for all projects in the group. Therefore, excellent communication skills, as well as proficiency in spoken and written English are expected. Good knowledge in German is a plus.

The University of Münster is an equal opportunity employer and is committed to increasing the proportion of women academics. Consequently, we actively encourage applications by women. Female candidates with equivalent qualifications and academic achievements will be preferentially considered within the framework of the legal possibilities. The University of Münster is committed to employing more staff with disabilities. Candidates with recognized severe disabilities who have equivalent qualifications are given preference in hiring decisions, although some restrictions related to specific project-related tasks may apply. Applications must be in English and include:

(1) a motivation letter stating the research interests with reference to the stated requirements in no more than 2 pages, (2) a detailed CV including academic and extracurricular achievements, as well as details of all research experience, (3) an abstract of the PhD thesis, and (4) contact details of at least two referees.

Applicants should send their documents in one single PDF file to Prof Shuqing Xu (shuqing.xu@uni-muenster.de) with a subject line "Junior Group Leader Position - Your Name". The application review will commence on 1st February 2021. The position will remain open until filled.

Shuqing Xu <shuqing.xu@uni-muenster.de>

## NMBE Bern CuratorMammalogy

The Natural History Museum Bern(NMBE), Switzerland has a vacancy for the following position starting March 1, 2021 at the earliest, or by agreement:

Curator of Mammalogy (80%).

The NMBE as one of the major research museums in Switzerland owns a valuable scientific collection of mammals, a modern research infrastructure (molecular genetics, morphology) and a close connection to the University of Bern. You can expect a responsible and versatile job as curator of the mammal collection in the team of our ever-changing museum operation.

Your tasks - Responsibility for the expansion, inventory,

conservation and use of the mammal collection, including loan transactions - Planning and implementation of independent, collectionrelated research projects and cooperations - Participation in public relations as well as conception and realization of exhibitions - Collaboration in the implementation of the educational mission of the museum (popular scientific publications, guided tours and lectures, information for laymen) - Interest in university teaching is expressly desired.

Your profile - completed biology studies and PhD in relevant field (zoology, ecology) - successful scientific work as a mammalogist with a focus on morphology,functional morphology, molecular genetics, taxonomy and/or systematics - evidence of international publication activity in peer-reviewed scientific journals - several years of post-doctoral research experience - experience in the acquisition of third-party funds - solid experience in dealing with scientific collections - good IT skills (e.g. databases, 3D reconstruction, analysis of scientific data) - very good language skills in German and English

The NMBE is an institution of the Burgergemeinde Bern, therefore employment is in accordance with their personnel regulations. If we have aroused your interest, please send your application with the usual documents (CV, list of publications, letter of motivation) as well as addresses of at least two references by 31 January 2021 (extended deadline) by e-mail (PDF document) or by mail to: Natural History Museum Bern, Secretariat, Bernastrasse 15, CH-3005 Bern, Switzerland (hr@nmbe.ch).

For further information on the job description, please contact the responsible department head, Dr. Stefan T. Hertwig, stefan.hertwig@nmbe.ch, +41 31 350 72 80.

Rüber Lukas <lukas.ruber@nmbe.ch>

## RiceU Technician BehaviorEvolution

The Saltz lab at Rice University seeks a full-time lab technician to start in March or April (dates flexible). The technician will be responsible for managing a large-scale experiment investigating the evolution of aggressive behavior in fruit flies. Our research focuses on understanding the evolutionary genetics of animal behavior through the lens of individual variation in environments.

The ideal candidate will be passionate about science and have exceptional organizational and time-management skills, and attention to detail. This is a great position



for a recent college graduate interested in obtaining research experience before moving on to graduate school or something else.

This hourly position pays approximately \$30-35k per year and includes health insurance and other benefits. The technician would join an inclusive and vibrant intellectual community at Rice University, and a collaborative lab environment with on-camera pets and terrible puns. For more about our research, team, and lab values see [saltzlab.com](http://saltzlab.com).

Please note that this position cannot be conducted remotely; the candidate would be required to be physically on campus at Rice University for approximately 40 hours per week. Rice University has mounted a vigorous program to prevent covid-19 outbreaks on campus; for more information and data, see here: [https://coronavirus.rice.edu/?utm\\_source=alert&utm\\_medium=alert%20banner&utm\\_campaign=Coronavirus](https://coronavirus.rice.edu/?utm_source=alert&utm_medium=alert%20banner&utm_campaign=Coronavirus). Of course, the technician would be expected to enthusiastically comply with all lab safety policies including those targeted at stopping the spread of covid-19.

To submit an application, go to <https://jobs.rice.edu/postings/25536>. The application will include your résumé/CV, names and contact information for a few references, and short descriptions of (1) why you are interested in the position; (2) relevant previous experience (scientific or otherwise); and (3) a tentative plan for safely relocating to Houston if necessary. Inquiries can be directed to me at [Julia.b.saltz@rice.edu](mailto:Julia.b.saltz@rice.edu).

Julia Saltz <[julia.b.saltz@rice.edu](mailto:julia.b.saltz@rice.edu)>

species to saving the Scottish wildcat, RZSS is making a huge difference and we need your help to continue to grow.

The role An opportunity has arisen for a committed Research Scientist (Conservation Genetics) to join the Royal Zoological Society of Scotland's WildGenes lab. Reporting to the Conservation Programme Manager (WildGenes), the Research Scientist will assist with the analysis of applied conservation genetic research data delivered by the RZSS WildGenes laboratory.

Who we are looking for The successful candidate will have a PhD in a relevant genetics discipline such as Conservation Genetics or Population Genetics/Genomics and a desire to work as part of our team to support conservation projects around the globe.

Interested? For full information on how to apply, please visit the RZSS vacancy page and follow the instructions: <http://www.rzss.org.uk/job-vacancies/> Closing date: Monday 18th January 2021.

Invitation to interview will be by email/phone and interviews will take place during the 2nd week of February.

For any questions and queries, please email Dr Alex Ball at [aball@rzss.org.uk](mailto:aball@rzss.org.uk) quoting "Research Scientist" as the subject.

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

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

[aball@rzss.org.uk](mailto:aball@rzss.org.uk)

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## RZSS Edinburgh Zoo Conservation Genetics

Research Scientist - (3 years Fixed Term) Location: Royal Zoological Society of Scotland - Edinburgh Zoo

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

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## San Angelo Texas Collections Manager

Job Title Collections Manager To learn more and apply, visit Position Number <https://employment.angelo.edu/postings/3447> 998174 Department Biology Salary \$32,957 - \$38,752 Job Summary/Description

Under supervision of the Curators and Department Chair, manages the teaching and scientific specimen collections and databases (Arctos and Symbiota) in the Angelo State Natural History Collections (ASNHC), including the Herbarium, Mammalogy, Ornithology, Herpetology, and Frozen Tissue collections. Serves to promote the ASNHC, department, and university through various forms of community outreach. Oversees un-

dergraduate and graduate student assistants, interns, and volunteers working in collections. Participates in providing input toward new facility design.

#### Typical Duties/Job Duties

Operational management of research and teaching collections in the Angelo State Natural History Collections (ASNHC), to include the Herbarium; Mammalogy, Ornithology, Herpetology, and Frozen Tissue collections. ASNHC duties are varied, but typical job functions include (but are not limited to):

- Accessioning, cataloging, and integrating specimens into the ASNHC - Collecting and preserving scientific specimens - Operating and maintaining the dermestid skeletal preparation facility - Developing, implementing, and maintaining an integrated pest management (IPM) program - Improving and maintaining the collection databases (Arctos and Symbiota) with georeferenced locality data - Processing and managing loans - Creating and maintaining policies and procedures that are cohesive with best practices - Providing assistance to curators in research - Training, managing, and working with undergraduate and graduate student assistants, interns, and volunteers to carry out curation activities and specimen preparation - Maintaining and developing the ASNHC website - Producing and distributing regular PR announcements including annual ASNHC newsletters - Participating in providing input toward new facility design - Conducting tours, lectures, programs, and classes on collection-related topics - Assisting in grant-proposal preparations for collection-related projects - Coordinating and managing permits relating to collection activities - Participating in museum programs, workshops, seminars, and other forms of professional development in the museum profession - Serving to promote the ASNHC, department, and university in other various forms of community outreach and social media

#### Knowledge, Skills and Abilities

- Knowledge of accepted museum standards and practices for collection care, collections management, specimen conservation and preparation, and registration methods - Skilled in curation of natural history collections - Knowledge of IPM protocols and procedures, including general knowledge of museum pests - Skilled in operation of dermestid facility - Knowledge of georeferencing and specimen-based electronic database protocols - Knowledge of imaging systems - Skilled in Microsoft Office - Skilled and database management software (Arctos and Symbiota, preferred) - Ability to be detail oriented for accuracy of data and information - Ability to be highly organized and able to handle multiple projects - Ability to communicate well and build rapport with students, faculty and staff - Ability to complete work

- within deadlines - Ability to have strong initiative to solve problems - Ability to work independently and with interdepartmental teams and initiatives - Skilled in having good presentation (oral and written communication) skills - Ability to use established occupational health and safety practices - Ability to organize and complete tasks in an accurate and timely manner - Ability to manage computerized files and records - Ability to prepare written communications and reports independently and proofread work accurately - Ability to work with minimum supervision - Ability to perform basic mathematical calculations - Ability to manage annual budget

#### Minimum Qualifications

B.S. degree in Museum Science, Biology, Zoology, Botany or related field and two years professional experience working in Museum Collection Management or related field.

#### Preferred Qualifications

M.S. degree in Museum Science, Biology, Zoology, Botany or related field.

#### Physical Requirements

Position requires: - Frequent walking, standing, bending, climbing stairs, and carrying and lifting (up to 30 lbs.). - Reaching, kneeling, crouching - Visual and hearing acuity - Basic manual dexterity with both hands

Incumbent works primarily indoors and has regular exposure to dust, chemicals, fumes, and sharp instruments. Occasional exposure to inclement weather conditions when outdoor work is required.

#### EEO Statement

Angelo State University is an equal opportunity employer and is committed to promoting and ensuring equal employment opportunity for all individuals



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>

Mara Lawniczak <mara@sanger.ac.uk>

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## SangerInstitute 6 EvolBiol

Hi,

I want to highlight six job opportunities at the Wellcome Sanger Institute in the UK.

\* In the Tree of Life Department, we have a research assistant role that would be based in Scotland working on the Darwin Tree of Life project doing collections in the Borders Forest. <https://jobs.sanger.ac.uk/vacancy/advanced-research-assistant-borders-forest-trust-project-tree-of-life-433498.html> \* In the Parasites and Microbes Department, we have just launched an exciting Evolutionary and Epidemiology Postdoc Fellowship scheme with a variety of pre-defined projects but also chances to develop your own project <https://www.sanger.ac.uk/about/careers/seed-fellowship-sanger-evolutionary-and-epidemiological-dynamics/> \* In my group, which is affiliated with both departments (Tree of Life, Parasites and Microbes), I have a Samples and Partner relationship manager that would suit someone with strong project management skills

<https://jobs.sanger.ac.uk/vacancy/samples-and-partner-relationship-manager-432594.html> \* and I have a Senior Bioinformatician role <https://jobs.sanger.ac.uk/vacancy/senior-bioinformatician-432868.html> \* and I am looking for two postdocs, not yet advertised, but would be excited to hear from PhD students nearing completion or postdocs interested in coming to the Sanger. The two projects are 1) using long reads to do population genomics in Anopheles and/or migrating hoverflies and 2) helping to build, operate, and analyse a UK-wide DNA barcoding project to study species diversity and interactions on 200,000 flying insects/year over the next 5 years. Both of these projects have staff, consumables, and sequencing funding for the next 5 years, so would suit postdocs interested in at least a 3 year commitment.

Please get in touch if you are interested in any of the roles above. Thank you, Mara Lawniczak mara@sanger.ac.uk <https://www.sanger.ac.uk/group/-lawniczak-group/> <https://www.sanger.ac.uk/person/-lawniczak-mara-k-n/> The Wellcome Sanger Institute is operated by Genome Research Limited, a charity registered in England with number 1021457 and a company registered in England with number 2742969, whose registered office is 215 Euston Road, London, NW1 2BE.

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## SpelmanC Atlanta ResTech Bioinformatics

This grant-funded Research Technician is responsible for providing direct support for activities related to Biological Big Data research and our partnership with the Broad.

Applications are invited for a full-time research technician in the Biology Department at Spelman College Atlanta, GA. General research areas at the department include microbiology, plant biology, cancer biology, evolution and ecology.

We are looking for a candidate with strong background or interest in computational biology (bioinformatics) in areas of genome/transcriptome sequencing and analysis (assembly and annotation). Ideally the candidate has experience or familiarity with next generation sequencing techniques. The technician is also expected to

- Prepares DNA and RNA extracts;
- Prepares sequencing libraries and run using Oxford Nanopore sequencing devices; - Performs PCR, gene cloning and mutagenesis; - Performs various assays based on electrophoresis (such as western blot) and immunofluorescence; - Collects data and manage the storage of collected data. This will include developing and maintaining databases of activities for reporting, publishing and tracking purposes; - Collaborates with PIs to develop yearly budget reports and annual program activity reports to submit via agency on-line system. - Maintains project budget, order supplies, and monitor expenditures for program activities; - Supervises undergraduate research students; - Maintains equipment.

Minimum of a Bachelors degree in Biology or related field and at least two years of research experience in the laboratory is required. The incumbent must have the ability to read, analyze, and interpret professional journals, technical procedures, or governmental regulations. The ability to write reports, business correspondence, and procedure manuals is a plus. Additionally, the ability to effectively present information and respond to questions from other employees, and managers is necessary.

Please email a letter of interest, CV, and names of and contact information for 2 references to ytekle@spelman.edu. Anticipated start date is flexible

but ideally as soon as possible. For more information on the labs follow this link: <https://www.spelman.edu/-academics/majors-and-programs/biology/faculty>

.Please feel free to email me with questions at the above email address.

Yonas Tekle Associate Professor Department of Biology Spelman College 350 Spelman Lane SW Atlanta, GA 30314-4399 Office: 404-270-5779

Yonas Isaak Tekle <yonastekle@gmail.com>

## UAmsterdam EvolutionaryEcology

At the University of Amsterdam (UvA), at the Institute for Biodiversity and Ecosystem Dynamics (IBED), we have a new vacancy for a Tenure-track Assistant Professor in Evolutionary Ecology, specifically host-microbe interactions.

At IBED, we investigate how species relationships determine the structure and stability of biological communities, and how the integrity of these communities is influenced or compromised by processes such as species extinction, the introduction of non-native invaders, and the growth of harmful species. Within the department of Evolutionary and Population Biology (EPB), our research comprises fundamental and applied investigations at the level of individual variation, population genetics and community dynamics, to understand the process of speciation, the evolution of resistance, the evolution of endangered and invasive species, and the evolution in the face of climate change. Specifically, we are working on evolutionary questions related to plant communities, plant-herbivore, herbivore-herbivore and predator-herbivore interactions, both within and between species.

**Job responsibilities: Research** We seek to appoint an early-stage career tenure-track Assistant Professor, focusing on host-microbe or host-parasite interactions, combining evolutionary theory with bioinformatic and genomic analysis.

Our goal is to recruit someone who will develop complementary research by contributing your skills and expertise to our existing research program to achieve common results.

Therefore, your research preferably links to existing research systems that are already in place within the Department of Evolutionary and Population Biology (EPB) (see [https://ibed.uva.nl/content/research-](https://ibed.uva.nl/content/research-departments/epb/epb.html)

[departments/epb/epb.html](https://ibed.uva.nl/content/research-departments/epb/epb.html)), that fits within the research focus of the Institute of Biodiversity and Ecosystems Dynamics (IBED) and that can potentially connect to the Research Priority Area Systems Biology (see <https://www.uva.nl/zwaartepunten/systems-biology/systems-biology.html>).

### Teaching

The department is involved in the educational programs of the BSc-programs (i) Biology and (ii) Future Planet Studies, and the MSc-programs (i) Ecology and Evolution and (ii) Future Planet Ecosystem Science. On average, the IBED staff contributes 30-40% of their time to education, including lecturing and supervising of BSc- and MSc-students. Within IBED, we strive to help and support early-career researchers to be(come) successful, for which we have a mentoring system, and the teaching load is lower in the first 1-2 years of the appointment. In addition, within the Faculty of Science, newly appointed assistant professors follow a didactic training trajectory, which upon completion results in a University Teaching Qualification (Basis Kwalificatie Onderwijs, BKO)) within two years.

In the course of the tenure track, we expect the assistant professor to also organise course(s) and contribute to courses in the field of Evolutionary Ecology and develop evolutionary ecology modules for MSc- and PhD-students. We are especially interested in candidates who can contribute to fieldwork courses in the BSc-program Biology.

More specific information on the job profile, salary and qualification requirements can be found in this link:

<https://www.uva.nl/shared-content/uva/en/vacancies/-2021/01/21-032-tenure-track-assistant-professor-in-evolutionary-ecology.html> Do you recognize yourself in the job profile? Then we look forward to receiving your application by 16 February 2021. Please note that you can apply online through this link.

Researchers of underrepresented minority groups are especially encouraged to apply.

Do you have questions about this vacancy? Or do you want to know more about our organisation? Check out the websites and/or contact Prof dr. Astrid T. Groot, Head of the Department of Evolutionary and Population Biology (EPB), [a.t.groot@uva.nl](mailto:a.t.groot@uva.nl).

“Groot, Astrid” <[a.t.groot@uva.nl](mailto:a.t.groot@uva.nl)>

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## UCaliforniaSanDiego ComputationalBiology

Assistant Teaching Professor in Biological Sciences The Division of Biological Sciences at the University of California, San Diego ([www.biology.ucsd.edu](http://www.biology.ucsd.edu)) invites applications from outstanding candidates for a tenure-track teaching faculty position at the Assistant level. All candidates must be committed to excellence in undergraduate education and demonstrate a commitment to equity and inclusion in higher education. We are especially interested in candidates who have created or contributed to programs that aim to increase access and success of underrepresented students in the sciences, and/or have detailed plans to accomplish such goals. The incumbent's primary responsibility will be to expand our undergraduate course offerings in one of two general areas: 1) bioinformatics, computational biology, biological data science, or quantitative biology or 2) lower and upper division laboratory courses. While candidates with research backgrounds in any subfield of biology will be considered, we are particularly interested in candidates with significant experience in bioinformatics, biostatistics, computational biology, laboratory instruction, and/or fostering equity and inclusion and student success in undergraduate science education programs. In addition to teaching and service, the incumbent will also advance science education at UCSD and beyond through professional activities such as conducting and disseminating pedagogical research in science teaching methodologies.

All candidates must have earned a Ph.D. or equivalent degree in Biology or a related field (at the time of application) which should be documented and explained in the application. In addition, the successful candidate is expected to have: - College-level teaching experience, with demonstrated success teaching undergraduates. Candidates should demonstrate knowledge of and experience employing instructional strategies tied to contemporary research on the science of learning (i.e., evidence-based teaching); - Knowledge of and/or experience in professional activities that advance science education beyond a single institution, such as development of a research program investigating the science of learning and teaching related to the applicant's area of expertise; - A commitment to equity and inclusion in higher education. Demonstrated ability to address the educational and academic needs of a diverse stu-

dent population, including developing effective teaching strategies for the educational advancement of students from groups who are underrepresented in higher education; - Potential to serve as an effective leader in the educational program of the Division of Biological Sciences.

Salary is commensurate with qualifications and based on University of California pay scales. The Division of Biological Sciences at UC San Diego is a vibrant center of scientific discovery, innovation, education, and collaboration. Our large research base spans many areas of biology and has one of the most celebrated graduate programs in the country. We are committed to academic excellence and diversity within the faculty, staff, and student body.

Further details about the required application material can be found at: <http://biology.ucsd.edu/jobs/apply-lrf-lsoe.html> Applications must be submitted to the UCSD online application collection system, AP-On-Line Recruit, at: <https://apol-recruit.ucsd.edu/JPF02623> UCSD is an Affirmative Action/Equal Opportunity Employer with a strong institutional commitment to excellence through diversity (<http://diversity.ucsd.edu/>). All qualified applicants will receive consideration for employment without regard to gender, race, color, religion, sex, sexual orientation, national origin, disability, age or protected veteran status.

Kim Graves | Academic Personnel Analyst | UC San Diego

Working remotely due to COVID-19 situation My pronouns are she, her, hers

"Graves, Kim" <kjgraves@ucsd.edu>

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## UFlorida MuseumNaturalHistory MuseumAI

AI Faculty Positions, Florida Museum of Natural History, University of Florida

The University of Florida (UF) (<http://www.ufl.edu/>) is embarking on a campus-wide strategic initiative to hire clusters of faculty with expertise in Artificial Intelligence (AI). As part of this initiative, the Florida Museum of Natural History (FLMNH) (<https://www.floridamuseum.ufl.edu/>) is seeking qualified applicants for two 12-month, tenure-track faculty positions in AI, broadly envisioned, with innovative research interests and experience. These positions will be filled at

the Assistant or Associate faculty level in the FLMNH Department of Natural History. Salary is competitive and negotiable based on experience.

The FLMNH, a college-level unit within UF, is a vibrant community of about 300 employees, including 32 full-time faculty, UF undergraduate and graduate students, postdoctoral research associates, and museum collections, education, and administrative support staff. As the official state museum of Florida, our core mission includes stewardship of 40 million specimens and artifacts, award-winning exhibitions, diverse public programs, and emerging virtual and digital engagement. The FLMNH Department of Natural History's research and collections programs are world class and attract about \$10 million annually in government and philanthropic support.

The FLMNH enjoys cross-campus collaborations with many of the 16 UF colleges, including those of potential relevance to these new faculty positions: Agricultural and Life Sciences (Institute of Food and Agricultural Sciences), Education, Engineering, Journalism and Communications, Libraries, and Liberal Arts and Sciences. These positions require a strong commitment to university education, museum-based research, and outreach. Interactions with allied academic departments include affiliate professorship status with responsibility for supervision of graduate students and teaching at least one formal course per year. Interdisciplinary UF institutes, such as the Informatics Institute, Biodiversity Institute, and Genetics Institute, offer additional opportunities for collaboration.

Position 1 (#68327) AI and Biological and/or Cultural Diversity Past and Present

We seek to strengthen FLMNH's global leadership role in biodiversity informatics by hiring a creative, interdisciplinary scholar whose research and teaching focus on innovative approaches using machine learning (ML) and computer vision, as applied to natural history data sources. This position is part of a multi-college cluster hire under the theme of AI and the Resilient and Built Environment. We invite candidates who ask and answer questions about changes in biological and/or cultural diversity through space and time and whose interests include working with burgeoning media and information generated from natural history datasets, community scientists, and in-situ and remote sensors. Possible data sources include 2D and 3D images, audio and video, and genetic data from the domains of biodiversity, paleontology, and archaeology. Preferred candidates will have a strong foundation in statistical ML, deep-learning, and working in scalable computing environments. We especially encourage applications from candidates who contribute to the diversity, inclusivity, and excellence of

the academic community and who have experience working with underserved and/or underrepresented student populations. FLMNH has made strategic investments in biodiversity informatics and is a national and international leader in this area. Its leadership position is further enhanced by iDigBio, the national hub for digitization of natural history specimens, and multiple funded infrastructure projects in imaging and media creation. The successful candidate will join other FLMNH faculty who are currently using ML approaches. Qualifications include a Ph.D., or equivalent, in biology, anthropology, geography, engineering, computer science, or other relevant discipline. For inquiries concerning this position, contact Dr. Pam Soltis, Search Chair, psoltis (at) flmnh.ufl.edu.

Position 2 (#68329) AI and Museum Education and Outreach

We envision an innovative AI program in museum education and outreach and seek a faculty member in this emerging field. Housed in the FLMNH, this position is part of the UF AI Workforce and Education Cluster, with links to our Thompson Earth Systems Institute and other UF colleges. We invite applications from those who have active research programs, external support, vision, and experience in AI related to formal, informal, and/or community audiences and learning. Applicants with experience working with multicultural, underserved, and/or underrepresented audiences are particularly encouraged to apply. Potential areas of interest include: exploring how recognition systems can create innovative exhibits and

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## UFlorida PopulationGenetics

Job: University of Florida.Population Genetics

**JOB DESCRIPTION** The Department of Biology at the University of Florida invites applications for a full-time, nine-month tenure-track faculty position at the level of Assistant Professor, beginning August 16, 2021. We invite applicants in all areas of theoretical, computational, and/or empirical population genetics who integrate the development and/or application of artificial intelligence

(AI—including machine and deep learning) in their research. The successful applicant is also expected to address the societal and/or ethical implications of AI.

This search is part of a campus-wide effort by the University of Florida to expand the role of AI in higher education and research (<https://ai.ufl.edu>). This hire will have a research focus that will contribute to understanding the ethics, equity, and bias of AI methods applied to genetics. The University is home to HiPerGator, one of the most powerful high-performance computers at a US public university, including the new HiPerGator AI NVIDIA GPU SuperPod.

The successful candidate will be expected to establish an extramurally funded, internationally recognized research program. Expectations for teaching include undergraduate instruction in Genetics as well as graduate and undergraduate courses in the applicant's specialty area. Interdisciplinary teaching interests are strongly encouraged. The Department of Biology highly values candidates with professional or lived experiences that enhance competency in teaching, training, and mentoring students from backgrounds that span and intersect all axes of diversity.

The University of Florida is among the top ten public universities in the United States. Research in the biological sciences, informatics, and ethics is conducted by faculty in many departments, across several Colleges and Institutes, including (but not limited to) the UF Genetics Institute, the Informatics Institute, and the UFHealth Precision Medicine Program, providing a rich intellectual environment and extensive opportunities for collaboration. The University is also home to prestigious colleges of Medicine, Dentistry, Pharmacy, and Veterinary Medicine, as well as the UF Interdisciplinary Center for Biotechnology Research, which provides state of the art molecular biology core facilities.

**JOB QUALIFICATIONS** Successful candidates must have obtained a Ph.D. or equivalent degree in a relevant discipline by August 16, 2021. Strong preference will be given to applicants with at least one year of postdoctoral experience, but exceptional applicants at the Ph.D. level may be considered.

**INSTRUCTIONS** For full consideration, applications must be submitted online at <http://apply.interfolio.com/82466> and must include: (1) a letter of application summarizing the applicant's qualifications, interests, and suitability for the position, (2) a complete curriculum vitae, (3) a statement on research goals, including work in ethics, equity, and bias, (4) a statement of teaching philosophy, including a demonstrated commitment to inclusivity, diversity, equity, accessibility, and internationalism;

and (5) a list of at least three references. After initial review, applicants who are chosen to receive further consideration will be asked to request confidential letters of recommendation from the references.

Applications will be reviewed beginning February 15, 2021, and the position will remain open until filled. Only complete applications will be reviewed at this time. Applications received after this date may be considered at the discretion of the committee and/or hiring authority.

All candidates for employment are subject to a pre-employment screening which includes a review of criminal records, reference checks, and verification of education.

The selected candidate will be required to provide an official transcript to the hiring department upon hire. A transcript will not be considered "official" if a designation of "Issued to Student" is visible. Degrees earned from an educational institution outside of the United States require evaluation by a professional credentialing service provider approved by the National Association of Credential Evaluation Services (NACES), which can be found at <http://www.naces.org/>. The University of Florida is an equal opportunity institution dedicated to building a broadly diverse and inclusive faculty and staff. Searches are conducted in accordance with Florida's Sunshine Law. If an accommodation due to disability is needed in order to apply for this position, please call (352) 392-2477 or the Florida Relay System at (800) 955-8771 (TDD).

The Department of Biology particularly welcomes applicants who can contribute to a diverse and inclusive environment through their scholarship, teaching, mentoring, and professional service. Please

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## **UNewHampshire MicrobialEvolution**

The Department of Molecular, Cellular, and Biomedical Sciences, College of Life Sciences and Agriculture at the University of New Hampshire (UNH) invites applications for a full-time (9-month) tenure-track Assistant

Professor of Microbial Ecology and Evolutionary Biology starting Fall 2021.

We seek an engaged faculty member who demonstrates strong potential to develop an internationally recognized research program in Microbial Ecology and Evolutionary Biology. Specific research focus is flexible, but candidates pursuing hypothesis-driven science in genomics, environmental microbiology, microbial systems biology, host-pathogen interactions, population dynamics, community ecology, or related fields using an evolutionary or comparative framework are encouraged to apply. A commitment to enhancing diversity and inclusion is required.

The successful candidate will interface with any of several centers for excellence at the University of New Hampshire including the Hubbard Center for Genome Studies, the Research Computing Center, the Center of Integrated Biomedical and Bioengineering Research, the New Hampshire Agricultural Experiment Station, the Northeast Center for Vibrio Disease and Ecology, and the School of Marine Science and Ocean Engineering. Graduate student training opportunities are provided through affiliation with any of the MCBS-administered graduate programs including Biochemistry, Genetics, Microbiology, and Molecular and Evolutionary Systems Biology.

Review of applications will begin in February 15, 2021 and will continue until the position is filled. We anticipate a start date of August 2021. For administrative questions related to application submission, please contact Paul Boisselle at paul.boisselle@unh.edu. For scientific questions, please contact the chair of the search, Professor Matthew MacManes at matthew.macmanes@unh.edu

Please see <https://jobs.usnh.edu/postings/38222> for the full announcement.

“MacManes, Matthew” <Matthew.Macmanes@unh.edu>

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## UPuerto Rico Mayaguez Evolutionary Microbiology

The Biology Department of the University of Puerto Rico at Mayaguez invites applications for the position of assistant professor in microbiology. The selected candidate will teach undergraduate and graduate courses according to departmental needs. Courses could include, but are not limited to: General Microbiology, Industrial Microbiology, Clinical Microbiology, and Food Microbiology. The candidate should design and develop new

courses in the area of expertise or adopt previously created ones that are not currently offered. Other responsibilities include coordinating teaching laboratories, attending faculty and departmental meetings, active participation in departmental committees, and developing a successful, externally funded research program in the required area of expertise. External funds, when obtained, will allow eligibility for release time during the academic year to a maximum of half the teaching load (6 cr./hrs. out of a minimum of 12 credits per semester). Furthermore, since our Institutional mission is education, research, and service, faculty are expected to publish and present the research work in conferences and peer-reviewed journals, mentor undergraduate and graduate students, participate in faculty committees, professional and community service, and collaborate with institutional activities.

Doctoral degree in Microbiology from an accredited institution or completion of all requirements by date of hire. Demonstrate the potential for excellence in teaching and research. Effective oral and written communication skills in Spanish or English. Bilingual candidates are preferred.

Interested candidates must send (only by e-mail) the following documents: a cover letter, Curriculum Vitae, research dossier and teaching interests, and three (3) letters of reference on or before February 18, 2021 to [brendam.soto@upr.edu](mailto:brendam.soto@upr.edu).

For further information, please contact: Prof. Ana V. Vélez Díaz University of Puerto Rico, Mayagüez Campus Department of Biology Call Box 9000 Mayagüez, Puerto Rico 00681-9000 [director.biol@uprm.edu](mailto:director.biol@uprm.edu)

<https://home.uprm.edu/hrjobs/showjob.php?id=824>  
UPRM Jobs < <https://home.uprm.edu/hrjobs/-showjob.php?id=824> > University of Puerto Rico Mayagüez Campus Human Resources Office Recruitment Division Telephone: 832-4040 Ext. 3159, 3045 Fax 831-1720 [home.uprm.edu](http://home.uprm.edu)

Sean Locke <[sean.locke@upr.edu](mailto:sean.locke@upr.edu)>

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## UPuerto Rico Mayaguez Genetics

The Biology Department of the University of Puerto Rico at Mayaguez is seeking applications for the position of assistant professor in genetics. The selected candidate will teach undergraduate and graduate courses according to departmental needs. Courses could in-



clude, but are not limited to: General Genetics, Human Genetics, Advanced Genetics, Population Genetics, Cytogenetics, and Eukaryotic Molecular Genetics. The candidate should design and develop new courses in the area of expertise or adopt previously created ones that are not currently offered. Other responsibilities include coordinating teaching laboratories, attending faculty and departmental meetings, active participation in departmental committees, and developing a successful, externally funded research program in the required area of expertise. External funds, when obtained, will allow eligibility for release time during the academic year to a maximum of half the teaching load (6 cr./hrs. out of a minimum of 12 credits per semester). Furthermore, since our Institutional mission is education, research, and service, faculty are expected to publish and present the research work in conferences and peer-reviewed journals, mentor undergraduate and graduate students, participate in faculty committees, professional and community service, and collaborate with institutional activities.

Doctoral degree in Genetics from an accredited institution or completion of all requirements by date of hire. Demonstrate the potential for excellence in teaching and research. Effective oral and written communication skills in Spanish or English. Bilingual candidates are preferred.

Interested candidates must send (only by e-mail) the following documents: a cover letter, Curriculum Vitae, research dossier and teaching interests, and three (3) letters of reference on or before February 18, 2021 to [brendam.soto@upr.edu](mailto:brendam.soto@upr.edu).—

For further information, please contact: Prof. Ana V. Vélez Díaz University of Puerto Rico, Mayagüez Campus Department of Biology Call Box 9000 Mayagüez, Puerto Rico 00681-9000 [director.biol@uprm.edu](mailto:director.biol@uprm.edu)

<https://home.uprm.edu/hrjobs/showjob.php?id=826>  
Sean Locke <[sean.locke@upr.edu](mailto:sean.locke@upr.edu)>

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## UTexas Austin FieldTech PlantEcologyGenomics

We seek an energetic, motivated research technician to participate in experiments on the ecology, physiology, and genomics of switchgrass. This is an opportunity to participate in integrative research studying the genetic basis of ecological processes in an important

native grass species. The position will be administered through the University of Texas at Austin and stationed with Philip Fay's group at the USDA Grassland, Soil, and Water Lab in Temple, TX ( <https://www.ars.usda.gov/plains-area/temple-tx/grassland-soil-and-water-research-laboratory/people/philip-fay/>). This position is expected to continue for six months with possible extensions based on job performance and progress towards research goals.

To apply, please submit a cover letter, CV, and contact information for three references to [https://utaustin.wd1.myworkdayjobs.com/-UTstaff/job/Texas/Research-Engineering-Scientist-Assistant---Temple\\_R\\_00011550-1](https://utaustin.wd1.myworkdayjobs.com/-UTstaff/job/Texas/Research-Engineering-Scientist-Assistant---Temple_R_00011550-1) .Direct any questions about the position to Robert Heckman ( [robert.heckman@utexas.edu](mailto:robert.heckman@utexas.edu)). Review of applications will begin immediately and the position will remain open until filled. Start date is negotiable, but preference will be given to applicants who are available earlier.

"[robert.heckman@utexas.edu](mailto:robert.heckman@utexas.edu)"  
<[robert.heckman@utexas.edu](mailto:robert.heckman@utexas.edu)>

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## UTours EcologyEvolution

The Insect Biology Research Institute in Insect Biology (IRBI - Tours France) is hiring a professor in Ecophysiology and Behavioural Ecology

for more information contact david GIRON at [directeur.irbi@univ-tours.fr](mailto:directeur.irbi@univ-tours.fr)

\*\_Job profile:\*\*\*\*\*

The Insect Biology Research Institute and the teaching department of Animal Biology and Genetics are opening a Professorship in ecology and evolution. Applicants will have a strong record in teaching and research at the interface of behavioural ecology and ecophysiology, especially in insects.

\*\_Research fields:\*\*: \*

/\*Biological sciences: evolutionary ecology, behavioural ecology, ecophysiology, arthropods\*/

Applicants are invited to present a research project addressing questions on the behavioural and physiological responses of arthropods to their habitat. She/he can also explore responses to environmental disruptions such adjustments and adaptive responses to multiple stresses and/or global changes.

– GIRON David Directeur de l'Institut de Recherche sur

la Biologie de l'Insecte (IRBI) Directeur de recherche CNRS

IRBI - UMR 7261 CNRS/Université de Tours Faculté de Sciences et Techniques, Parc Grandmont, Avenue Monge 37200 Tours FRANCE

directeur.irbi@univ-tours.fr

+33 2 47 36 69 11 (secrétariat) +33 2 47 36 69 74 (ligne directe) +33 6 62 21 43 82 (portable)

<http://irbi.univ-tours.fr> Directeur IRBI - David GIRON <directeur.irbi@univ-tours.fr>

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## Vienna Group Leaders Molecular Evolution

The Research Institute of Molecular Pathology (IMP) is one of the world's leading basic biomolecular research institutes, located at the thriving and interdisciplinary Vienna BioCenter. The Vienna BioCenter hosts 1900 scientists from over 70 nations, cultivating a dynamic and collaborative work environment.

Researchers at the IMP conduct curiosity-driven research across a wide range of topics in molecular cell biology, developmental and regeneration biology, immunology and cancer research, with the aim to understand the mechanisms of life.

The IMP is continuously looking for outstanding group leaders in these areas and is particularly interested in recruiting faculty members who will study mechanistic aspects of development, regeneration, disease and gene regulation at the organismal level, by using genetic, molecular, and evolutionary approaches.

The next deadline for group leader applications is 15 February 2021.

Group leader positions are fully independent positions, similar to assistant professorships. Successful candidates will be offered an initial contract of five years, with an anticipated extension to eight years, subject to external review. Salaries are internationally competitive and group leaders are given generous funds for student, post-doc and technician positions, investments and running costs.

The IMP offers access to a broad range of excellent service facilities and participates in the Vienna BioCenter PhD Program and VBC Summer School, which are amongst the most competitive and successful graduate research programs in Europe.

Vienna offers a lively multicultural environment with high living standards, repeatedly ranking as the No. 1 city worldwide for the quality of living. Vienna is a safe, family-friendly city with excellent public transportation and the Vienna BioCenter has its own childcare facilities.

For general information on group leader functions at the IMP, see <https://www.imp.ac.at/career/group-leaders/> or email Christopher Robinson at [christopher.robinson@imp.ac.at](mailto:christopher.robinson@imp.ac.at) Applications should be submitted online via <https://selapp.imp.ac.at/?selection=imp21>. Please include a CV with publication list, a summary of research achievements and future research plans, and the contact details of 3 referees. In your publication list, please explain in a few sentences the relevance of your most important publications.

Read more about the institute at [www.imp.ac.at](http://www.imp.ac.at)

Christopher Robinson, [christopher.robinson@imp.ac.at](mailto:christopher.robinson@imp.ac.at)  
Christopher Robinson, [christopher.robinson@imp.ac.at](mailto:christopher.robinson@imp.ac.at)

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## Vienna Wildlife Sciences

Dear all,

The \*University of Veterinary Medicine, Vienna (Vetmeduni Vienna)\* is inviting applications for a \*Full professor (Chair) of Wildlife Sciences\* < <https://www.vetmeduni.ac.at/en/infoservice/professorships/> >

The position is affiliated with the Research Institute of Wildlife Ecology, Department of Interdisciplinary Life Sciences (FIWI; [www.vetmeduni.ac.at/fiwi/](http://www.vetmeduni.ac.at/fiwi/)). The successful candidate will manage this Research Institute and pursue wildlife sciences in research, teaching, continuing education and public services in collaboration with other institutes and the University clinics of the Vetmeduni Vienna. The newly appointed professor will have access to state-of-the-art facilities for research and teaching, both in the FIWI and in collaboration with the other research institutes of the Department of Interdisciplinary Life Sciences and possibly with stakeholders in wildlife ecology and management (municipalities, hunting associations, agriculture and agroforestry, nature and species conservation agencies). The FIWI already has well established interactions with such bodies.

Salary scheme: Salary scheme of the Collective Bargain Agreement for University Staff, job group A1. The minimum salary according to the Collective Bargain Agreement for University Staff is

€73,438, 40 gross/year. A higher salary may be agreed depending on the applicant's qualifications. The professorship is a permanent position.

\*Application deadline: January 31st, 2021\*

To apply for this position, please read first the full job description, requested qualifications of the candidate, and application guidelines at: <https://www.vetmeduni.ac.at/en/infoservice/professorships/>  
Please find attached the announcement for the Profes-

Best regards,

Dr.med.vet. Pamela Burger Forschungsinstitut für Wildtierkunde und Ökologie Vetmeduni Vienna Savoyenstrasse 1 1160 Wien, Austria Tel: +43-(0)1-25077-7141; Fax: -7941

Pamela Burger <pamela.burger@vetmeduni.ac.at>

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### AGA SpecialEventsAwards Deadline Jan31

Thinking about offering a post-vaccination workshop?

The American Genetic Association grants awards each year to its members for support of special events that advance the mission of AGA, particularly to support students to attend the event.

Eligible events include specialized workshops and short courses in topical areas of organismal genetics and genomics, but any event relevant to AGA's purpose will be considered, especially those that could lead to original Journal of Heredity articles.

Awards are between \$1,000-\$15,000, with a total of \$70,000 available for 2019. Funding is competitive, and applications must follow the guidelines.

To apply, visit <https://www.theaga.org/> Anjanette Baker, AGA Manager

[theaga@theaga.org](mailto:theaga@theaga.org)

Anjanette Baker <[theaga@theaga.org](mailto:theaga@theaga.org)>

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## CETAF CollectionsBasedAwards

Dear All,

The E-SCoRe Award 2021, which is awarded to young researchers for outstanding collections-based research by the Consortium of European Taxonomic Facilities (CETAF) will be open for new candidates to apply until 14 February 2021.

CETAF Community will celebrate for the second year the new generation of scientists who have shown interest in the collections that help to document, describe and understand life on Earth. By awarding the E-SCoRe award, CETAF wishes to highlight the significance of collections-based research in the fight against biodiversity loss and climate change as well as to support early career researchers in this field.

More information on eligibility and criteria on our website following this link: <https://cetaf.org/news/apply-e-score-award-until-14-february-2021#overlay-context>  
Best wishes Eva

Dr. Eva Häffner Freie Universität Berlin Science Policy Coordinator Botanischer Garten und Botanisches Museum Berlin Königin-Luise-Str. 6-8 14195 Berlin Tel.: (030) 838 59964 Fax: (030) 838 4 59964 E-Mail: [e.haeffner@bgbm.org](mailto:e.haeffner@bgbm.org) [www.botanischer-garten-berlin.de](http://www.botanischer-garten-berlin.de) "Häffner, Eva" <[E.Haeffner@bgbm.org](mailto:E.Haeffner@bgbm.org)>

There will be a single call per year with a total budget of 20,000 Euro. A single project can be funded with up to 4,000 Euro, but smaller projects are welcome. We are requesting a report after one year, at which time the project should be completed.

Please use the ESEB application form to submit your proposal and note the word limits given herein. The form can be downloaded at the ESEB website: <https://eseb.org/prizes-funding/outreach-fund/> Proposals will be accepted until \*15th March 2021\* and should be submitted by email to the ESEB office (Email: [office@eseb.org](mailto:office@eseb.org); Subject: Outreach 2021). Note that we will acknowledge receipt of all applications within a week. If you have not received our confirmation by then, please contact the ESEB office again!

Please note that scientific meetings are not supported by ESEB Outreach Initiative funds. These fund also do not work as a mechanism for continual funding. Once the potential of a project has been demonstrated, this should be used as a basis to convince other funding sources on continuation funds. Hence, submissions by a group that has been successful in past calls may be penalized if the proposals are mere follow-ups of previous projects.

The applications will be evaluated by the Outreach Initiative Committee:

Josefa González, Chair (ES) Delphine Sicard (FR) Karine Van Doninck (BE) Rhonda R. Snook (SE)

Dr. Ute Moniatte - ESEB Office - [office@eseb.org](mailto:office@eseb.org) European Society for Evolutionary Biology - [www.eseb.org](http://www.eseb.org) ESEB <[office@eseb.org](mailto:office@eseb.org)>

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## ESEB OutreachInitiativeFund DeadlineMar15

\*\*ESEB Outreach Initiative Fund\*\*

The European Society for Evolutionary Biology (ESEB) welcomes applications to the ESEB Outreach Initiative Fund for projects that promote evolution-related activities. The goal of this initiative is to improve public knowledge about evolution globally.

Applications for funding will be accepted for educational initiatives that promote evolution, translation of evolutionary material (books, films, and websites) intended for a general audience, public outreach seminars, public exhibitions, etc.

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## ESEB SpecialTopicNetworks Call Mar31

\*\*\*ESEB Special Topic Networks - Call for proposals\*\*\*

Small symposia, workshops and courses in various formats can perform functions complementary to those of the ESEB Congresses, allowing more focused interactions within specialist areas, forging new links between previously separate areas or fostering interdisciplinary and innovative ideas that merge specialized fields. One-off events can be valuable but the returns for connected series of events can be even greater. Therefore, ESEB invites proposals for Special Topic Networks (STNs) that will support dynamic and flexible series of small meetings and/or other networking opportunities in focused

and currently active research areas.

Each STN will be funded for up to 6 years (subject to review after 2 and 4 years of operation) with an annual budget of up to 10,000 Euros. Four STNs have been initiated since the start of the initiative (see <https://eseb.org/prizes-funding/special-topic-networks/>), and further STNs will be initiated every other year. The format of these STNs is up to their organisers and innovative ideas are encouraged. All fields of evolutionary biology are eligible. Applicants should provide a proposal with the following components:

1) a description of the research area to be targeted, showing why it is timely to address it in this way and outlining the expected benefits to the field from the STN (max. 1000 words), 2) a plan for the first two years of operation of the STN and an outline of activities over the remaining years (max. 500 words), 3) the names and affiliations of the proposed organisers, with brief (max. one page) CVs, and 4) a budget, with brief justification, for the STN activities proposed for the first two years.

Applicants should also identify an institution that is prepared to open an account in which the funds can be deposited and managed by the applicants. 'Overheads' will not be paid to this institution but reasonable direct administrative costs will be eligible. Funding for each 2-year block will be subject to approval by the STN Committee, established by Council, following receipt of a report of activities in the preceding 2 years. The institution managing funds will be asked to provide a certified statement of expenditure to accompany the report. The principal criterion for renewal will be evidence that the funding provided had been used to further interaction in the topic area.

Applications should be sent to the ESEB office email ([office@eseb.org](mailto:office@eseb.org)) as PDF files by \*\*\* 31 March 2021\*\*\*. Updated versions of previously-submitted proposals are welcome. Proposals will be assessed by an independent STN Review Panel, appointed by the STN Committee following the closing date and ensuring no conflict of interest by panel members. The STN Review Panel will make funding recommendations to Council. The result will be announced after the next Council meeting, at latest on 31 August 2021.

The principal criterion for selection of an STN will be its focus on an active area of research within the scope of evolutionary biology. Preference might be given to STNs that propose new connections between sub-disciplines or that focus on the resolution of current controversies. New STNs will address topics distinct from those covered by currently-funded STNs. A score for this criterion based on part (1) of the application will account for 50% of the overall panel score. It is primarily for the

proposers to demonstrate the need for an STN, the potential for it to stimulate progress and the activities that will enable the network to be effective. A typical STN might organise one small discussion meeting per year but it might also organise training events and its members might work together to generate resources or publications. Interaction among members might be fostered, between meetings, using social media, online discussion forums or similar. A score for the effective and innovative nature of the plans laid out in part (2) of the proposal will account for 25% of the overall panel score. The final 25% of the score will be based on the budget and adherence to the following guidelines:

1. A proposal should be supported by at least three ESEB members (membership in date on the closing date for applications), from at least two and typically three countries and taking gender issues into account, who commit to organising the STN for its duration (or to finding appropriate replacements if forced to step down). A member should support no more than one proposal in a given application round and organisers of current STNs should not be proposers of new STNs.
2. STNs should organise at least one meeting in the non-Congress year following its inception and one in its final non-Congress year. Complementing these meetings with an innovative range of other activities is strongly encouraged.

— / —

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

## Evolution Conchologist Grants

Conchologists of America (COA) Academic Grants, 2021 Deadline: February 28, 2021 Please see the website: <http://www.conchologistsofamerica.org/grants/> Eligibility: - Degree-seeking students and anyone engaging in malacological research, including University/College faculty and Museum researchers, is eligible. Typically, 80% of applicants are degree-seeking students, and 80% of award recipients are degree-seeking students. - Persons of any nationality and country of residence may apply. - Applicants from previous years may re-apply. - Recipients of previous years may re-apply, but must include a submitted manuscript to or published article in the American Conchologist based on the previous

award. - Degree-seeking students must have a letter of recommendation by their advisor emailed to jannvendetti@yahoo.com by the Feb. 28th deadline with the applicant's name in the subject line.

Rules & Guidelines: - All submissions must be submitted via email as a .doc, or .pdf., preferably in one file. Keep file size under 3 MB. - The proposal must concern a malacological topic with any molluscan taxon or taxa as the focus, e.g., parasite studies should focus on the molluscan side of the interaction. All disciplines from autecology to zoogeography, including paleontology, are eligible. - The project must be self-contained. In other words, with the funding requested it must be possible to answer the question posed. However, the proposal may be a component of the applicant's overall research. - Permanent equipment is not an allowable expense. Time using a piece of permanent equipment (for example, SEM beam time) is allowable. - Institutional overhead is not permitted. - The maximum award is \$2500 US. Smaller amounts can be requested and may be more likely to receive funding. Partial funding is possible at the discretion of the Academic Grants Committee. - If a grant is awarded, please consider options to avoid having to pay personal income tax on it (US citizens and residents must provide their social security number if given award and paid individually.). Many educational and non-profit organizations manage such grants; please inquire with such entities. COA and/or its representatives are not liable for any tax consequences of the award. - All recipients are expected to submit a summary of their work to American Conchologist within 12 months of receiving the award. - All applications are evaluated by the Academic Grants Committee composed of three professional malacologists appointed by the Chair of the COA Academic Grants program. - The decisions of the Committee are final.

Application: Must include 3 components: a proposal, budget, and CV.

Proposal (2-4 pages): Title Abstract of project, not to exceed 150 words Body including background information necessary to understand the project and its significance, materials and methods, and proposed plan of research, and Illustrations if necessary literature cited single-spaced, 12 point font Budget (1 page): List of estimated expenses List of grants applied to for same/similar project CV/Academic Biography (1 page): Include address, phone number, email address of applicant, academic and/or relevant professional history

Applications are judged by the COA Grants Committee. Awardees will be notified via email in (or before) May 2021, then announced at COA's annual convention (if it is held). Awardees need not be present at the

convention.

THE DEADLINE FOR APPLICATIONS IS FEBRUARY 28 All application materials must be emailed as electronic documents to: jannvendetti@yahoo.com

Jann Elizabeth Vendetti, Ph.D.

she/her/hers

Associate Curator & Twila Bratcher Chair in Malacology Natural History Museum of Los Angeles County 900 Exposition Blvd., Los Angeles, CA 90007

Jann Vendetti <jvendetti@nhm.org>

## Field Stations Funding Petition

Colleagues,

Please consider signing a petition <[https://docs.google.com/forms/d/e/1FAIpQLSdHj4ktYfUzvQY\\_Iz2JQ9f0Ja\\_dPnmHytFloQvYgjSsMVZA0g/viewform](https://docs.google.com/forms/d/e/1FAIpQLSdHj4ktYfUzvQY_Iz2JQ9f0Ja_dPnmHytFloQvYgjSsMVZA0g/viewform)> to protect funding for field stations, marine labs, and field courses imperiled by COVID. Essentially all field courses have been canceled and remain closed except for a few essential research projects. Revenue streams to these facilities and their staff have been moribund since March 2020. Worse, virtually all university and parent institutions will be grappling with multi-million dollar deficits for the next two years. Already, many stations are laying off staff and eliminating positions.

A field course or field station was the natal ground for a great many of the thousands of us. For those, no essay on their quintessential importance to the recruitment, retention, and training of students in ecology, evolutionary biology, geology, oceanography, global change biology, and myriad other disciplines is necessary.

Please go the signature petition <[https://docs.google.com/forms/d/e/1FAIpQLSdHj4ktYfUzvQY\\_Iz2JQ9f0Ja\\_dPnmHytFloQvYgjSsMVZA0g/viewform](https://docs.google.com/forms/d/e/1FAIpQLSdHj4ktYfUzvQY_Iz2JQ9f0Ja_dPnmHytFloQvYgjSsMVZA0g/viewform)> to lend your support. It takes less than 30 seconds to sign.

Below is the petition language, which is a brief pitch about their importance that we hope to submit to a journal at the end of January. A longer article about the importance of preserving funding for field stations, marine labs, and field courses has been accepted at BioScience. The viewpoint will be published on 27 January 2021 (a link to the BioScience proof is available on the

petition website).

Thank you for your consideration!

Fredric Janzen, Director Kellogg Biological Station  
Michigan State University

On behalf of leading members of the Organization for  
Biological Field Stations...

Petition - Field Stations and Field Courses Imperiled All basic requirements for life and civilization are inexorably linked to natural resources and the wellbeing of our environment. As the human population skyrockets toward 8 billion and beyond, our impacts soar, leading us into a multi-dimensional crisis. Much broader public understanding and engagement are necessary to overcome these mounting challenges. More than ever, extensive environmental data are urgently needed to guide local, regional, and global policies toward functional solutions.

Fortunately, field stations, strategically positioned across the globe, have for generations amassed and analyzed crucial information about our planet - its climate, endangered species, resource exploitation, environmental health, emergent diseases, and more - yielding many long-term data sets integral to developing practical approaches to modern struggles. Research stations are invaluable in situ hubs of exploration and discovery for the training of students and early career scientists in the fundamentals of diverse STEM disciplines. By affording access to wildlife observation, they also inspire innumerable planetary stewards and promote responsible ecotourism that, in turn, benefits both nature and local economies while spreading environmental awareness among employees, neighbors, and visitors.

Unfortunately, current circumstances, especially COVID-related travel restrictions, have truncated cash flow to field stations thereby debilitating their capacity to generate essential data, conduct outreach activities, and offer unique learning experiences. At a time when environmental issues demand heightened attention, we simply cannot risk undermining the continuum of scientific endeavors and education. Field stations and the courses they deliver are integral to scientific literacy and remain critical to the protection of Earth's natural heritage and its life-sustaining ecosystem services.

We the undersigned hereby exhort governments, foundations, and universities to commit to supporting scientific research stations and their educational programming throughout current pandemic adversities and subsequently, to augment resources at a level commensurate with their expanding importance to science and society.

"Janzen, Fredric" <janzenf1@msu.edu>

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## GordonConf 2022 requests

The 2021 Gordon Conference on Microbial Population Biology has been postponed to 2023, but we're hoping to fill the gap with a 2022 conference or workshop series. Tell us your heart's desires in this short survey: <https://forms.gle/XyGRruWCSOALPXL88> . Rosie Redfield <redfield@zoology.ubc.ca>

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## Hawaii Undergraduate REU Biodiversity

Please share with undergraduate students interested in a summer research experience using DNA methods to study biodiversity in the Hawaiian Islands.

The University of Hawaii at Manoa is offering an NSF-funded Research Experience for Undergraduates (REU) during the summer of 2021 focused on the use of DNA methods to study Hawaiian biodiversity. Participants will take advantage of high-throughput DNA sequencing, phylogenetic, population genetic, and genomic methods to study the evolutionary and biogeographic origins of Hawai'i's native, endemic and invasive organisms. REU participants will be mentored by a diverse faculty from the School of Life Sciences, the Hawaii Institute of Marine Biology, and the Department of Tropical Plant and Soil Sciences.

Applicants from backgrounds underrepresented in STEM fields, including Native Hawaiians, Pacific Islanders and students currently enrolled in community colleges are encouraged to apply. Previous research experience is not required. The 10-week REU summer program provides participants with stipends and covers the costs of accommodations, food, and travel to the REU site. This unique experience allows participants to gain hands-on research experience, providing an excellent stepping stone for future graduate studies in ecology, evolution, and conservation biology.

The REU program website and application form can be found here: <https://biodiversity-reu.manoa.hawaii.edu>. Although the program is subject to change depending on the status of the COVID-19 pandemic, we are currently

planning for the REU to be an in-person experience in summer 2021.

If you have questions, please direct them to Drs. Stephanie Kraft-Terry and Peter Marko at [uhm-reu@hawaii.edu](mailto:uhm-reu@hawaii.edu).

Stephanie Kraft-Terry Peter Marko Associate Professor Associate Professor School of Life Sciences School of Life Sciences

Peter Marko <[pmarko@hawaii.edu](mailto:pmarko@hawaii.edu)> Peter Marko <[pmarko@hawaii.edu](mailto:pmarko@hawaii.edu)>

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## NewPhytologist TansleyMedalApplications

Dear all,

The New Phytologist Tansley Medal is an annual prize awarded to an early career researcher for excellence in plant science. The competition is open to students and researchers with up to five years' experience since gaining / defending their PhD (career breaks excluded). The winner receives 2,000 (GBP) and all finalists author Tansley insight reviews, published in New Phytologist and highlighted by an Editorial.

The application deadline for this year's New Phytologist Tansley Medal is 29 January 2021 - find all the information you need here: <https://www.newphytologist.org/-grants/tansleymedal> You can read about the most recent winners and finalists in this issue of New Phytologist: <https://nph.onlinelibrary.wiley.com/toc/-14698137/2020/228/6> Please feel free to get in touch with any questions, and good luck!

Mike

Dr Mike Whitfield (pronouns: he / him) Development Coordinator, New Phytologist Foundation — [newphytologist.org](http://newphytologist.org) Twitter: —@NewPhyt— Instagram: —@NewPhyt— Facebook: —fb.com/NewPhytologist — The New Phytologist Foundation, registered charity number 1154867

2019 Impact Factor—8.512

COVID-19. We are mindful that many aspects of day-to-day life are currently affected by the COVID-19 pandemic, and appreciate that this may delay activities or responses. If you require any assistance, or if we can help in any way, please don't hesitate to contact us.

“Whitfield, Mike” <[m.whitfield@lancaster.ac.uk](mailto:m.whitfield@lancaster.ac.uk)>

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## Online Resource MetabarcodingBiodiversity

Dear colleagues,

Following our successful online workshop, “Theory and Practice in Metabarcoding for Biodiversity”, the iBioGen consortium are pleased to be able to share our practical materials as a self-contained online course available free at:

[learnmetabarcoding.github.io](http://learnmetabarcoding.github.io)

This comprises a comprehensive set of tutorials covering a range of topics in metabarcoding bioinformatics, suitable for the complete novice to learn step-by-step or for an experienced bioinformatician to find something new.

We hope this will be a valuable resource for the metabarcoding community!

We are grateful to Dr. Thomas J. Creedy, Prof. Alfred P. Vogler and Liam Penlington who generated this online resource. The iBioGen project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 810729.

[www.ibiogen.eu](http://www.ibiogen.eu)

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## PlantInvasionGenomics 24 SummerRes

The Consortium for Plant Invasion Genomics (CPING; <https://www.invasiongenomics.com/>) is seeking applicants for twenty-four (24) in-person undergraduate research positions for Summer 2021.

Each student will be paired with a CPING mentor and will gain experience in field collection, use of herbarium specimens, genomics, and bioinformatics. Specific projects will vary by CPING mentor, but students will form an interactive cohort that will receive training in career development, research best practices, and scientific communication.

The CREU session will run from June 1st 'V August



12th, 2021, which concludes with a professional conference at which students can present their work. Research sites span 20 mentor labs across 14 U.S. states. Undergraduates in their second year and beyond (including graduating seniors) with interests in invasive species, botany, and/or genomics are encouraged to contact individual CPING mentors prior to application. List of mentors can be found here: (<https://www.invasiongenomics.com/creu.html>). Students are encouraged to contact potential mentors prior to applying.

Due to funding restrictions, students must be U.S. citizens or permanent residents, but students who come from underrepresented groups in STEM, have limited research opportunities at their home institutions, and/or live or study in EPSCoR states ([https://www.nsf.gov/od/oia/programs/epscor/nsf\\_oia\\_epscor\\_EPSCoRstatewebsites.jsp](https://www.nsf.gov/od/oia/programs/epscor/nsf_oia_epscor_EPSCoRstatewebsites.jsp)) are encouraged to apply!

Successful applicants will receive a stipend of \$4,000, another \$2000 for travel and living expenses, \$1000 in research funds and full travel funds to the CPING annual conference in August 2021. Applications are due February 28th, 2021.

Brittany Sutherland <[blsutherland@gmail.com](mailto:blsutherland@gmail.com)>

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## PurchaseC NY SixMonthTeachingEvol

Dear Colleagues,

We are looking for evolutionary biologists, ecologists, and general biologists who are recent or soon-to-be PhD graduates for a 6 month teaching fellowship.

At Science Corps, we are a small group of scientists running a non-profit that sends recent PhD graduates to improve life science education in under-resourced areas. Science Corps offers fully paid fellowships to upcoming and recent PhD graduates (up to four years after graduation) to build science capacity at one of our host locations. Fellows travel to partner institutions to develop science curriculum, teach in secondary school classrooms, train teachers, and build community-based research projects. We are currently seeking late stage PhD student and postdoc applicants for our fellowships.

Should travel continue to be restricted, fellows will have the opportunity to work remotely and then visit the host site once it is safe to do so.

We are presently interested in recruiting immediately for fellowships starting within the next year. The deadline for this application round is January 31st, but we still encourage you to contact us if you would like to be considered for a later appointment.

To find out more about us, where our host sites are located, and to apply, please go to <https://science-corps.org>. Also, if you know of any institutions worldwide that may share our goals, we would sincerely appreciate it if you could point us their way.

Stephen E Harris, Ph.D. Assistant Professor of Biology Purchase College, SUNY Purchase, NY 10577 [stephen.harris@purchase.edu](mailto:stephen.harris@purchase.edu)

“Harris, Stephen” <[stephen.harris@purchase.edu](mailto:stephen.harris@purchase.edu)>

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## SSEGrants ForOutreach

SSE Grants for Local and Regional Outreach Promoting the Understanding of Evolutionary Biology

This is a call for proposals from Society for the Study of Evolution <<http://www.evolutionarysociety.org/>> (SSE) members for support for local and regional educational outreach activities to take place during 2021. It is our hope that these projects will lead to ongoing outreach collaboration in future years. Preference will be given to new collaborations, but extensions of previous projects that have evidence of success are allowed.\* Proposals will be accepted until February 20, 2021.\*

Guidelines for applying for funds to support SSE 2021 outreach projects are as follows:

1. Proposal: Clearly but briefly state your plans in NO MORE THAN one single-spaced page.
2. Amounts requested may be up to \$1000. Include a short justification for the use of the funds. Indicate any additional matching funds and include letters of commitment from collaborative partners. NOTE: Projects under \$500 will receive funds upon award. Projects from \$500 - \$1000 will receive funds upon completion of the project and submission of receipts.
3. Send your request by email attachment (subject heading 'SSE Outreach 2021') to Robert Pennock [[pennock5@msu.edu](mailto:pennock5@msu.edu)] no later than 20 February 2021.

Applications will be ranked by an SSE Education Committee working group according to the following criteria:

1. Clarity and quality of the proposed evolution outreach

activity;

2. Expected impact in terms of reaching a critical or broad audience;
3. Evidence, in the form of matching funds, of partnership outside of your immediate academic department;
4. Indication as to how the project might lead to new or ongoing successful outreach collaborations.

We expect to fund in the range of 5-10 projects, with announcement of awards to take place by March 1, 2021.

Examples of past outreach activities have included public lectures, exhibits, student competitions, and professional development events for teachers. We especially encourage proposals that focus on discussing and implementing evolution education reforms recommended in the \*Vision & Change in Undergraduate Biology Education: Chronicling Change, Inspiring the Future\* report < [http://visionandchange.org/files/2015/07/VISchange2015\\_webFin.pdf](http://visionandchange.org/files/2015/07/VISchange2015_webFin.pdf)> or on dialogues between undergraduate instructors and K-12 teachers around the emphasis on evolution in the \*AP Biology Curriculum Framework\* < <https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-biology-course-and-exam-description.pdf>> and the \*Next Generation Science Standards\* < <http://www.nextgenscience.org/next-generation-science-standards>>. We look forward to your applications!

Even if you are not interested in applying for funding from the SSE, we encourage you to engage through whatever means are at your disposal in opportunities to promote public understanding of evolutionary biology.

Sincerely,

Robert T. Pennock

Chair, SSE Education Committee Outreach Grants Program

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

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## UPittsburgh EvolutionStudyGrants

\*Pymatuning Lab of Ecology Early Career Fellowship\*

The University of Pittsburgh's Pymatuning Laboratory of Ecology (PLE) is pleased to offer the Frank J. Schwartz Early Career Research Fellowship of up to \$10,000 plus up to three months of station fees and residency costs for the primary investigator (PI). PLE is a vibrant research and education facility located on Lake Pymatuning in Northwest Pennsylvania. PLE's research facilities are spread across 350 acres and include access to a variety of aquatic and terrestrial ecosystems. Its 10,000+ square feet of laboratory facilities include a field laboratory adjacent to an open field that can be used for large-scale replicated experiments, a modern molecular laboratory, and facilities for animal, plant and aquatic studies.

This opportunity is open to researchers holding PhD degrees in any science discipline that can benefit from PLE's resources ( <https://www.ple.pitt.edu/ple-research> ). The purpose of the fellowship is to permit researchers to explore new projects or collect preliminary data. Fellowship funds can be used at the PI's discretion to facilitate the research but not for PI compensation. Preference will be given to individuals and projects with the potential to develop into long-term research activities at PLE. We especially encourage applications from individuals in the postdoctoral or early faculty phases of their careers, but researchers holding PhD degrees at all stages of their careers are also encouraged to apply. We welcome projects related to the study of evolution.

Information on the application procedure and format can be found at <https://www.ple.pitt.edu/research-fellowships-and-grants/schwartz-early-career-research-fellowship> .< <https://www.ple.pitt.edu/research-fellowships-and-grants/schwartz-early-career-research-fellowship> > The deadline for submission is \*February 24, 2021\*.

For more information about the fellowship program or research opportunities at PLE, please contact the Director, Dr. Cori Richards-Zawacki ( [cori.zawacki@pitt.edu](mailto:cori.zawacki@pitt.edu) ).

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\*Pymatuning Lab of Ecology Research Grants\*

The University of Pittsburgh's Pymatuning Laboratory of Ecology (PLE) invites applications for Grants in Aid

of Research. PLE is a vibrant research and education facility located on Lake Pymatuning in Northwest Pennsylvania. PLE's research facilities are spread across 350 acres and include access to a variety of aquatic and terrestrial ecosystems ( <https://www.ple.pitt.edu/ple-research>). Its 10,000+ square feet of laboratory facilities include a field laboratory adjacent to an open field that can be used for large-scale replicated experiments, a modern molecular laboratory, and facilities for animal, plant and aquatic studies. Projects related to the study of evolution are encouraged.

Research Grants are intended to support researchers in the early stages of their ecological and evolutionary research programs at PLE. Grant proposals are sub-

mitted each year in February and several awards are made, generally not exceeding \$3,500. Most awards go to graduate students, but consideration will be given to recent Ph.D.'s and more senior researchers interested in initiating new work at PLE. \*The due date for grant proposals is February 24, 2021. \*

Please visit our website for further details about the application process:

<https://www.ple.pitt.edu/research/fellowships-and-grants/ple-research-grants> For more information about the grants program or research opportunities at PLE, please contact the Director, Dr. Cori Richards-Zawacki ([cori.zawacki@pitt.edu](mailto:cori.zawacki@pitt.edu)).

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## AarhusU Denmark PopulationDemographics

The Department of Biology, Aarhus University, invites applications for a 2-year bioinformatics postdoc position to help overcome key knowledge gaps about past megafauna population dynamics, their drivers, and, linked to this, uncertainties about restoration targets. <http://bit.ly/megageno2> The team is looking for early-career scientists with strong bioinformatics expertise including on population demographic reconstructions. It's not necessary to have worked with megafauna or mammals, but having an interest is of course important.

\*Application deadline is April 1st 2020\* and expected start date August 1st

To apply, find more details about the position, the application process and the working environment at: <http://bit.ly/megageno2> Applicants seeking further information are invited to contact: Professor Jens-Christian Svenning, phone +45 28992304, e-mail: [svenning@bio.au.dk](mailto:svenning@bio.au.dk)

Good luck!

Maud C Quinzin <[mquinzin@mit.edu](mailto:mquinzin@mit.edu)>

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## Barcelona EvolutionaryBioinformat- icsGenomics

Postdoc Position in Evolutionary Bioinformatics and Genomics

We are seeking to incorporate a postdoctoral researcher through the Juan de la Cierva program, financed by the Spanish government, to work on the role of human recurrent mutations in genome function, evolution and diseases. This study is part of the INV FEST project and aims to investigate the evolutionary history of recurrent inversions across mammal genomes and determine their potential impact during evolution.

The successful candidate will form part of an interdisciplinary and dynamic research team located at the Institut de Biotecnologia i de Biomedicina (IBB) of the Universitat AutÀnoma de Barcelona (UAB). The IBB is a multidisciplinary research institute located at the

UAB, which has been selected Campus of International Excellence in Biomedicine. It is located in Bellaterra, a small residential town just 30 min away from the Barcelona center.

Candidate requirements and conditions: We are seeking highly motivated and talented individuals with an excellent track record from all nationalities.

Candidates could apply to the following calls: - Juan de la Cierva Formaci3n 2020: 2 year contracts for researchers that have obtained a PhD between January 1st 2019 and December 31st 2020.

<https://www.ciencia.gob.es/portal/site/MICINN/-menuitem.dbc68b34d11ccbd5d52ffeb801432ea0/-?vgnextoid=5cd919af71af5710VgnVCM1000001d04140aRCRD>

- Juan de la Cierva Incorporaci3n: 3 year contracts for researchers that have obtained a PhD between January 1st 2016 and December 31st 2018.

<https://www.ciencia.gob.es/portal/site/MICINN/-menuitem.dbc68b34d11ccbd5d52ffeb801432ea0/-?vgnextoid=056fe027b89f5710VgnVCM1000001d04140aRCRD&vgnnextoid=deef865dd69b2610VgnVCM1000001d04140aRCRD>

Application deadline: Please send expression of interest and a CV to Mario C3ceres ([mcaceres@icrea.cat](mailto:mcaceres@icrea.cat)) before January 17th 2021, since official application on the program webpage has to be finished by January 19th 2021 or January 21th 2021 depending on the specific call.

Additional information: InvFEST project: <https://-invest.uab.cat/> Comparative and Functional Genomics group: <http://grupsderecerca.uab.cat/cacereslab/> Mario Caceres <[mcaceres@icrea.cat](mailto:mcaceres@icrea.cat)>

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## BOKU Vienna ForestGeneticsGenomics

The Department of Forest- and Soil Sciences, Institute of Silviculture is currently seeking a Postdoctoral Research Associate PhD position / project employment (Reference code: 20)

Extent of employment: 30 hours per week Duration of employment: 1st of April 2021, limited to 31st of March 2024 Workplace: 1190 Vienna, Peter-Jordan-StraÙe 82

Gross monthly salary and pay grade in terms of collective agreement for university staff (payable 14 times per year): B1 lit. b, euro 2.959,40

The BiodivERsA project ACORN (identifying seed

sources for highly adaptable oak forests in a changing climate) deals with genetic adaptation of oaks to drought stress. An international team of six research institutions from five European countries cooperates in the frame of the project. They will address the question how drought-tolerant oak populations can contribute as seed sources for establishing highly adaptable forests in a changing climate. We search for a highly motivated scientific associate (post-doc) who will undertake both research and coordination activities in the project.

Responsibilities -Planning and implementation of field collections in oak stands -Organisation and supervision of molecular genetic analyses in the lab -Conception and conduction of environmental association analyses (between environmental parameters and adaptive genetic variation) based on next-generation sequencing (NGS) data and bioinformatic analysis -Contribution to data management, administration, activity coordination, exchange with stakeholders and dissemination to the public -Publication of the results in scientific journals and practice-oriented media

Required skills and qualifications -Doctoral degree/PhD in forest / environmental sciences, biology or other equivalent subject -Diploma degree in forest / environmental sciences, biology or other equivalent university degree -Expertise in population genetics -Very good knowledge of statistics, R and bioinformatics -Willingness to work in field trips for several days, also on steep slopes -Excellent knowledge of spoken and written English; a good knowledge of the German language is an advantage -Teamwork and communication skills

Desirable skills and qualifications -Experience with work in research projects and data management -Experience in landscape genomics (environmental association analyses) -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: 16th of February 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 and 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: 20)

We regret that we cannot reimburse applicants travel and lodging expenses incurred as part of the selection and hiring process. [www.boku.ac.at](http://www.boku.ac.at) Dr. Charalambos Neophytou Senior Scientist Institut für Waldbau

Dept. für Wald- und Bodenwissenschaften

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>

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## CE3C Portugal Population Genomics And Hybridization

Postdoc in population and speciation genomics

Dear Evolvir Community,

The Evolutionary Genetics group at CE3C, led by Victor Sousa, is looking for a postdoc in population and speciation genomics, who is interested in developing inference methods to study hybridization in natural populations. The candidate will be part of a team working on the collaborative Human Frontiers in Science Program (HFSP) project 'Chance or Curse? The consequences of hybridization in a changing world?' (see also the simultaneous postdoc opportunity in Claudia Bank's lab at <https://banklab.github.io/positions/>).

Once thought to be rare, we now know that hybridization is quite common. There has been a longstanding debate about the importance of hybridization because it can have both beneficial and harmful effects. By creating new phenotypes, hybridization can help organisms adapt, but it can also drive extinction by generating harmful combinations of genes. Past work has proposed that in stressful environments, the benefits of hybridization may outweigh the costs, but this idea has not been clearly tested. Understanding these dynamics has become more pressing as rates of hybridization have increased due to the stresses of rapidly changing environments. As part of the funded HFSP grant in collaboration with Drs. Molly Schumer, Chelsea Rochman and Claudia Bank, we will combine diverse and multidisciplinary expertise to tackle fundamental questions via field observations, laboratory experiments, compu-

tational tools, and mathematical models.

The research of the postdoc hired for this position will aim at detecting regions of the genome involved in hybrid incompatibilities, jointly inferring the demographic history of populations, disentangling the genetic signatures of incompatibilities from other selective processes (e.g. introgression load and adaptive introgression). This will involve population genomics modeling, simulations, method development and data analysis.

The ideal candidate has a strong background in statistical and theoretical population genomics and a keen interest in method development, modeling and coalescent theory. Individuals with a background in biology, mathematics, statistics and related disciplines are encouraged to apply.

The research will be done at cE3c, FCUL in Lisbon. The group of the PI works on population genomics and bioinformatics, and on its applications ranging from human genetics to conservation and speciation. In addition to independently developing this project, the candidate is expected to contribute with his/her expertise to the group, interacting with the other team members and co-mentoring junior lab members.

We provide a dynamic and interdisciplinary work environment within the research group (<https://ce3c.ciencias.ulisboa.pt/team/EG>), and within the collaborator team (Claudia Bank, University of Bern <https://banklab.github.io/>; Molly Schumer, Stanford University, <https://schumerlab.com/>; Chelsea Rochman, University of Toronto, <https://rochmanlab.com/>).

If desired by the candidate, short or mid-term visits of the collaborator labs are encouraged, and the candidate is expected to present and discuss their work at international workshops and conferences.

The salary will be commensurate with qualifications and experience, according to the host institution statutes (approximately ranging from 32,000-36,000 EUR gross per year, including social security and pension funds). Funding for this position is currently available for 12months renewable up to 3 years.

#### Contact and Application

If interested, please prepare a detailed CV, a motivation letter explaining the fit for the position and the desired starting date, and contacts of up to 3 referees. You will need to submit your application online (<http://concursos.fcencias-id.pt>). Details about the position and the required documents can be found here: <http://www.eracareers.pt/opportunities/index.aspx?task=showAnuncioOportunities&jobId=130395&idc=1>

Evaluation of the applications will begin on 18 January

2020 and continue until the position is filled, with a desired starting date as early as possible. Following the policy of the host institution, it is expected that the candidate relocates to Portugal in time for the starting date of the position. Please contact me if you are interested and have questions ([vmsousa@fc.ul.pt](mailto:vmsousa@fc.ul.pt)).

Vitor Sousa

Assistant Professor Evolutionary Genetics group CE3C - centre for ecology, evolution and environmental changes Department of Animal Biology Faculdade de Ciências da Universidade de Lisboa

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

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## ColdSpringHarborNY MolecularEvolution

A post-doc position in molecular evolution is available in the McCandlish group at Cold Spring Harbor Laboratory. This is a fully-funded position to study the role of mutational biases in molecular adaptation. The position is available immediately and applications will be reviewed on a rolling basis.

Full job ad below and at <https://cshl.peopleadmin.com/postings/17570> Informal inquiries welcome, please email: [mccandlish@cshl.edu](mailto:mccandlish@cshl.edu)

David M. McCandlish Assistant Professor Simons Center for Quantitative Biology Cold Spring Harbor Laboratory

1 Bungtown Road Cold Spring Harbor, NY 11724 [mccandlish@cshl.edu](mailto:mccandlish@cshl.edu)

A fully-funded 2-year post-doctoral position in molecular evolution is available in David McCandlish's group in the Simons Center for Quantitative Biology at Cold Spring Harbor Laboratory.

The aim of this project is to study the role of mutational biases in molecular adaptation. The successful candidate will leverage emerging data on the mutations responsible for adaptive evolution at the amino acid level to determine when and how mutational biases influence the genetic basis of molecular adaptation. While the main focus is empirical, there will also be opportunities

to develop new population-genetic theory. In addition, the candidate will have the opportunity to work closely with Dr. Arlin Stoltzfus at the National Institute of Standards and Technology, who will be a collaborator on this project.

The successful candidate will conduct bioinformatic and statistical analyses, and undertake a wide-scale survey of documented cases of molecular adaptation. The successful candidate will also have the opportunity to collaborate on other ongoing projects in the McCandlish lab, which more broadly focuses on the computational analysis of empirical genotype-phenotype maps and the consequences of complex genotype-phenotype relationships for molecular evolution.

This position is affiliated with the Simons Center for Quantitative Biology (SCQB).

**Education:** Applicants must hold a PhD in molecular evolution or a related field such as evolutionary genetics, computational biology, or bioinformatics.

**Experience/Skills:** The candidate should have prior exposure to the literature on the evolution of protein coding sequences, and proficiency in at least one computational environment for statistical and bioinformatic analysis such as R, Mathematica, Matlab, Julia, Python, C, etc.

Interested candidates should apply online to position #02798-R using the following link: <https://cshl.peopleadmin.com/postings/17548>. Please include a CV and publication list, a statement of research interest and contact information of three references.

We offer a highly collaborative social and scientific environment as well as a competitive salary and benefits.

Cold Spring Harbor Laboratory is a world-renowned research and educational institution with programs in cancer, neuroscience, plant biology, genomics and bioinformatics. The Laboratory is recognized internationally for its excellence in research and educational activities.

For more information about CSHL, please visit us at [www.cshl.edu](http://www.cshl.edu) CSHL is an EO/AA Employer. All qualified applicants will receive consideration for employment and will not be discriminated against on the basis of race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability or protected veteran status.

VEVRAA Federal Contractor

Dave McCandlish <david.mccandlish@alum.swarthmore.edu>

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## Dalhousie Bioinformatics

POSTDOCTORAL POSITION Bioinformatics, comparative genomics, gene transfer, endosymbiosis, algae

Archibald Lab Department of Biochemistry and Molecular Biology, Dalhousie University Halifax, Nova Scotia CANADA I am looking for a highly skilled and self-motivated researcher at the postdoctoral level to study endosymbiosis from a comparative genomic perspective. Organisms of interest include (but are not limited to) cryptophyte algae and Paramoeba species.

The Archibald Lab is part of a collegial and internationally recognized community of comparative genomics and molecular evolution researchers at Dalhousie University. The successful applicant will have the opportunity to work collaboratively with these researchers and with those at other institutions. Demonstrated skills in bioinformatics and comparative genomics are essential, as are strong written and oral communication abilities.

The position is available starting May 1, 2021 (actual start date negotiable) and will run for an initial 1-year period, with the possibility of extension to 3 years given satisfactory performance. All qualified and interested persons are encouraged to apply. Applicants should email (1) a brief cover letter outlining their qualifications and research interests, (2) a Curriculum Vitae and (3) contact information for three references to John Archibald: [jmarchib@dal.ca](mailto:jmarchib@dal.ca)

John M. Archibald, Ph.D.

University Research Professor Director, Centre for Comparative Genomics & Evolutionary Bioinformatics Department of Biochemistry & Molecular Biology, Dalhousie University

Web: <http://johnarchibald.ca> Phone: (902) 494-2536 Genomics: A Very Short Introduction 'XOxford University Press, 2018

John Archibald <[John.Archibald@Dal.Ca](mailto:John.Archibald@Dal.Ca)>

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## DalhousieU CompativeGenomics

POSTDOCTORAL POSITION

Bioinformatics, comparative genomics, gene transfer, endosymbiosis, algae

Archibald Lab Department of Biochemistry and Molecular Biology, Dalhousie University Halifax, Nova Scotia CANADA

I am looking for a highly skilled and self-motivated researcher at the postdoctoral level to study endosymbiosis from a comparative genomic perspective. Organisms of interest include (but are not limited to) cryptophyte algae and *Paramecium* species.

The Archibald Lab is part of a collegial and internationally recognized community of comparative genomics and molecular evolution researchers at Dalhousie University. The successful applicant will have the opportunity to work collaboratively with these researchers and with those at other institutions. Demonstrated skills in bioinformatics and comparative genomics are essential, as are strong written and oral communication abilities.

The position is available starting May 1, 2021 (actual start date negotiable) and will run for an initial 1-year period, with the possibility of extension to 3 years given satisfactory performance. All qualified and interested persons are encouraged to apply. Applicants should email (1) a brief cover letter outlining their qualifications and research interests, (2) a Curriculum Vitae and (3) contact information for three references to John Archibald: [jmarchib@dal.ca](mailto:jmarchib@dal.ca)

John M. Archibald, Ph.D. University Research Professor Director, Centre for Comparative Genomics & Evolutionary Bioinformatics Department of Biochemistry & Molecular Biology, Dalhousie University

Web: <http://johnarchibald.ca> Phone: (902) 494-2536

Genomics: A Very Short Introduction 'X Oxford University Press, 2018

John Archibald <[John.Archibald@Dal.Ca](mailto:John.Archibald@Dal.Ca)>

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## DalhousieU PhylogeneticModeling

A fully funded, 2-3 year, postdoctoral research position in statistical phylogenetic modeling is available immediately to work with Andrew J. Roger and Edward Susko at Dalhousie University. The research project is focused on developing new phylogenetic models/approaches aimed at resolving deep tree of life relationship. Specifically, the successful candidate will develop, implement and apply novel phylogenetic statis-

tical models/phylogenomic methods to determine billion-year relationships related to the origin of eukaryotes. Roger and Susko are part of the world-renowned Centre for Comparative Genomics and Evolutionary Bioinformatics (CGEB: <http://cgeb.dal.ca>) 'V a large collaborative group of faculty and trainees at Dalhousie university with shared research interests in deep evolution, comparative genomics, phylogenetics, microbiomics and computational biology.

The successful candidate will become part of an international collaborative team involving the Dalhousie group, Dr. Laura Eme in Orsay, France and Dr. Minh Bui in Canberra, Australia, creator of IQ-TREE) that will be addressing the difficult phylogenetic problems that are key to understanding the origin of eukaryotic cells (e.g. the root of the eukaryote tree, the positions of eukaryote nucleocytoplasm and mitochondria in the tree of life, etc.). The goals are to develop new more realistic phylogenetic models including approaches to model heterogeneity in the process of protein sequence evolution across sites and branches of phylogenetic trees and accommodate multiple different phylogenetic histories for different genes or sites. New models will be implemented in a maximum likelihood framework in IQ-TREE (<http://www.iqtree.org/>) and their statistical properties will be investigated.

The ideal candidate should have a Ph.D. evolutionary biology, phylogenetics, computational biology, or related disciplines. Knowledge and expertise in phylogenomics and implementation of phylogenetic models in a maximum likelihood or Bayesian framework are assets. Programming experience using C++ (or C) and the R statistical package are especially important qualifications.

For more information about the Roger and Susko labs and the CGEB Centre see <http://rogerlab.biochem.dal.ca>, <https://www.mathstat.dal.ca/~tsusko/> and <http://cgeb.dal.ca> To apply please send an application package consisting of:

1. a cover letter that describes why you are interested in this position and highlights your expertise,
2. your curriculum vitae (CV), and
3. the names and contact details of 2 or more individuals who have agreed to write reference letters.

The applications should be emailed to: Andrew Roger: [andrew.roger@dal.ca](mailto:andrew.roger@dal.ca)

Review of applications will occur continuously until the position is filled. Only those candidates chosen to continue on through the selection process will be contacted.



Dalhousie University is committed to fostering a collegial culture grounded in diversity and inclusiveness. We encourage applications from individuals from all equity-seeking groups including qualified people who identify as indigenous, African Nova Scotians, differently-abled, ethnic minorities, minority sexual orientations and gender identities, and all other qualified candidates who would contribute to the diversity of our community.

Andrew Roger <Andrew.Roger@Dal.Ca>

## **DonanaBiolStation Spain EvolutionaryBiology**

Postdoctoral Researcher positions at /Doñana Biological Station:/

The /Doñana Biological Station/ (Estación Biológica de Doñana, EBD; Seville, Spain) is seeking to incorporate postdoctoral researchers through the Juan de la Cierva program, financed by the Spanish government.

We are looking for researchers that have an excellent track record in evolutionary biology, conservation biology, ecology or global change. This opportunity is open to researchers of all nationalities, and we are particularly interested in cultural diversity. Candidates could apply to the following calls:

-Juan de la Cierva Formación 2020: 2 year contracts for researchers that have obtained a PhD title between January 1<sup>st</sup> 2019 and December 31<sup>st</sup> 2020. Deadline Jan 21<sup>st</sup> .

<https://www.ciencia.gob.es/portal/site/MICINN/-menuitem.dbc68b34d11ccb5d52feb801432ea0/-?vgnextoid=5cd919af71af5710VgnVCM1000001d04140aRCRD>

-Juan de la Cierva Incorporación: 3 year contracts for researchers that have obtained a PhD title between January 1<sup>st</sup> 2016 and December 31<sup>st</sup> 2018. Deadline: Jan 19<sup>th</sup> .

<https://www.ciencia.gob.es/portal/site/MICINN/-menuitem.dbc68b34d11ccb5d52feb801432ea0/-?vgnextoid=056fe027b89f5710VgnVCM1000001d04140aRCRD&vgnextchannel=deef865dd69b2610VgnVCM1000001d04140aRCRD>

Candidates should locate a research group that could host them. For the application the candidates will need to submit their CV and that of the host researcher. For information about the research carried out at the Estación Biológica de Doñana, please check <http://www.ebd.csic.es/inicio> The Estación

Biológica de Doñana is an institute of the Spanish National Research Council (CSIC). EBD has close to 200 employees, including 44 researchers, postdoctoral fellows, PhD students, field and lab technicians, and administrative personnel. EBD has several unique aspects:

-EBD manages two field reserves, one within Doñana National Park (Huelva, Spain) and the other in the Sierra de Cazorla, both devoted to ecological and evolutionary research.

-The field reserve in Doñana National Park is a Singular Scientific-Technical Infrastructure (ICTS-RBD) that offers services and facilities to researchers around the world.

-The institute, located in Seville, is equipped with six laboratories maintained by technical staff, that offer services to all researchers: Molecular Ecology, GIS and Remote Sensing, Chemical Ecology, Aquatic Ecology, Ecophysiology, Stable Isotopes.

-The institute has also an Animal Experimentation Unit and a green house. This includes 11 walk-in climatic chambers and animal care facilities. Our Animal Welfare personnel train and conduct certification courses for our personnel.

-The institute houses the second largest scientific collection in the country which focuses on vertebrates and includes almost 100,000 specimens.

-We actively participate in MSc and PhD programs at the University of Seville and Pablo de Olavide University. We also host PhD students from many other national and international universities as well.

Despite the rich resources available to scientists at EBD, the main advantage of EBD is the quality of the researchers. Several of them are among the most cited researchers in their fields and are internationally recognized. EBD is currently looking to expand the number of investigators and lines of research through the recruitment of young, engaged and brilliant minds. EBD is welcoming researchers from all over the world.

For further information, contact us at [proyectos@csic.es](mailto:proyectos@csic.es)  
Carles Vila <[carles.vila@ebd.csic.es](mailto:carles.vila@ebd.csic.es)>

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## EarlhamInst GutMicrobeEvolution

Dear Colleagues,

please find a link to a ERC funded postdoc position to work on the evolution of bacteria and microbial eukaryotes in relation to human host colonization:

<https://quadram.ac.uk/vacancies/research-scientist-evolutionary-gut-microbiomics/> best wishes,

Falk HildebrandQuadram / Earlham InstituteExt.: 5359 (QIB), 2629 (EI), +44 1603 255359Norwich Research Park[www.falk.science](http://www.falk.science) “Falk Hildebrand (QIB)” <falk.hildebrand@googlemail.com>

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## EawagSwitzerland EvolutionaryGenomics

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 Fish Ecology and Evolution (FishEc) located in Kastanienbaum (Lucerne) has a vacancy for a Postdoctoral Fellow in Genomics of Rapid Adaptation

The notion that evolution can be rapid, when adaptive changes and changes in population size occur at the same time scale, raises questions regarding the genetic basis of adaptive traits and the need to understand the temporal dynamics of adaptive evolution, i.e., how frequent adaptive changes are and what influences the rate of change. Experiments with chemostat systems showed that host (*Chlorella* green algae) and virus rapidly evolved resistance and counter adaptation. The entanglement of the coevolutionary and population size dynamics (eco-evolutionary dynamics) makes this a fascinating study system of rapid evolution. The experiments are replicated and fitness of the populations and individual clones at different time can be assessed (see Retel et

al. 2019; DOI: 10.1126/sciadv.aax0530). The postdoc project advertised here is aiming to study the underlying genomic changes evolving during experimental host virus coevolution. A goal will be to differentiate between neutral and adaptive changes and characterizing the dynamics of those changes across the time course of the experiments. This will require the development of innovative analysis methods, which make full use of the replicated and innovative experimental setup aiming to disentangle the effect of selection and demography.

The successful candidate will have substantial opportunities to develop his or her own research skills and to assist in the supervision of Bachelors, and Master students. The work will consist of the analysis of next generation whole genome data, the development of bioinformatics pipelines and tools, and the interpretation and publication of the results. This study will be carried out in a close collaboration between the Fish Genomics group at Eawag Kastanienbaum and Lutz Becks and the group of Aquatic Ecology and Evolution at the University of Konstanz. Applications are sought from individuals with a profound interest in Bioinformatics and Evolutionary Genomics. Applicants should have earned a PhD in a relevant field of evolutionary biology, or bioinformatics. Excellent communication skills in English and skills in team work are essential. The duration of the position will be one year, financed by the Swiss National Science Foundation. We are dedicated to continue this collaboration and eager to explore opportunities for funding also together with the applicant.

We are a research department of Eawag (Department of Fish Ecology and Evolution) and a division (Aquatic Ecology) of the Institute of Ecology and Evolution of the University of Bern, and the successful candidate will have a unique possibility to take advantage of both these excellent academic environments. The work place is at Eawag's Center for Ecology, Evolution and Biogeochemistry in Kastanienbaum, Lucerne, which besides the Fish Ecology and Evolution Department hosts research group from the Department of “Surface Waters 'V Research & Management” and offers a beautiful workplace at the shores of Lake Lucerne, a friendly international working climate and a strong cross-disciplinary research environment.

Eawag is an equal opportunity employer. Women are explicitly encouraged to apply to increase their share in science and research. Applications should include a concise statement describing your motivation to work on this research project, curriculum vitae, copies of your academic qualifications and names for two references. Applications must be submitted by 28 February 2021 or until the position is filled. The starting date for the position is anticipated for July 2021 but can be dis-

cussed. For further information, please contact Philine Feulner (philine.feulner@eawag.ch; +41 58 765 21 06). We look forward to receiving your application. Please send it through this webpage, any other way of applying will not be considered. A click on the link below will take you directly to the application form. <https://apply.refine.ch/673277/0826/pub/1/index.html> “Feulner, Philine” <Philine.Feulner@eawag.ch>

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### FMNH Chicago HistoricalContemporaryGenomics

The Field Museum of Natural History and Texas Tech University invite applications for an NSF-funded postdoctoral associate position that will be based at the Field Museum in Chicago.

We seek a postdoctoral associate with interests in evolutionary genomics and science communication and outreach. The postdoctoral associate will contribute to multiple aspects of a project comparing historical and contemporary populations of Eastern African birds using genomic and morphometric techniques. The postdoctoral associate will work in collaboration with the research groups of Ben Marks at the Field Museum and Joseph Manthey at Texas Tech. The candidate should be well versed in basic principles of evolutionary biology and familiar with lab work utilizing historical preserved specimens for DNA sequencing analyses. Experience analyzing high-throughput DNA sequencing data is a plus. Background in ornithology a plus, but not required.

Expected Duties - Genomic library preparation of historical museum avian specimens - Analysis of genomic datasets in hand and those to be developed - Work with science outreach - Work with project team, including PIs, students, etc. - Disseminate research outputs with presentations at scientific meetings and with publication in peer-reviewed scientific journals - Potential for fieldwork (possible but not required; also depends on current status of COVID pandemic)

Required Qualifications - Ph.D. in evolutionary biology or related field by start date - Ability to work confidently as an independent researcher as well as part of a collaborative team - Enthusiasm for science communication and outreach - Proven track record of publication

Preferred Qualifications - Experience with extracting DNA and/or library preparation from ancient or historical DNA specimens (>60 years old) - Experience

handling and analyzing large high-throughput DNA sequencing datasets

Timeline - Two year hire with an evaluation of satisfactory progress at one year - Review of applications starting late January 2021 and will continue until a suitable applicant is chosen - Start date between February and June 2021

To apply, please submit a current CV and cover letter (your application will not be considered without both) at the following URL: <https://careers.hireology.com/-fieldmuseum/482666/description> If you have any questions about the project, please contact: Ben Marks (bmarks@fieldmuseum.org) and Joseph Manthey (Joseph.Manthey@ttu.edu)

The Field Museum is committed to equity, diversity, and inclusion. 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 regard to 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 reasonable accommodation in completing this application, interviewing, completing any pre-employment testing, or otherwise participating in the employee selection process, please direct your inquiries to [accessibility@fieldmuseum.org](mailto:accessibility@fieldmuseum.org).

Joseph Manthey <[jdmanthey@gmail.com](mailto:jdmanthey@gmail.com)>

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### Guam CoralMolecularEvolution

Guam EPSCoR is recruiting a postdoctoral researcher with expertise in molecular ecology to study how coral microbiomes and photosymbionts affect the resistance and resilience of corals to changing environmental conditions. The postdoc will work at the Marine Laboratory of the University of Guam and be able to leverage easy access to field sites for specimen collection and field experiments. A state-of-the-art genetics lab is on site at the Marine Laboratory and high-throughput computing resources are being implemented as part of the Guam EPSCoR efforts to facilitate data intensive analyses.

The postdoc will be part of a dynamic team, including several faculty researchers and graduate students with

expertise in coral ecology, genomics, and bioinformatics. Together we work toward understanding the impacts of environmental change on coral resilience in Guam and the Micronesian region.

#### Minimum Qualifications:

- PhD or postdoctoral experience in marine ecology, genetics/genomics, or related field
- Experience in generating and analyzing complex genetic/genomic datasets
- Proficiency in computational approaches to data analysis (e.g., shell scripting)

Minimum Knowledge, Skills and Abilities -Strong quantitative skills and appropriate knowledge of statistical data analysis- -Good organizational skills -High motivation and pro-active approach to work -Excellent communication skills

Preferred Qualifications: -Proficient in Python and/or R  
-American Association of Underwater Scientists (AAUS) diving certification or equivalent

Initial review of applications will begin on Feb 1st 2021 but the position will remain open until filled.

For application requirements please see position announcement RC-21-25 posted on the website of the Research Corporation of the University of Guam (RCUOG).

<https://www.uog.edu/rcuog/job-announcements> For questions and inquiries contact Dr. Bastian Bentlage (bentlageb@triton.uog.edu).

Bastian Bentlage <bastian.bentlage@gmail.com>

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## ImperialC London Covid19InSewage

Covid 19 - Research Associate

**Job summary** Applications are invited for a Postdoctorate Research Associate to join our recently awarded NERC grant “Mapping the prevalence of SARS-CoV-2 in sewage and environmental samples”, led by Professor Vincent Savolainen and in collaboration with several groups at Imperial College (Ransome, Bell, Woodward, Jones). Mapping the prevalence of COVID-19 cases is essential for designing and tracking the efficacy of control policies, such as social...

Closing date 28 January 2021

Location South Kensington Campus, Imperial College London

Position type Full time, fixed term until 30 November 2021  
Salary GBP 40,858 - 48,340 plus benefits

#### Job description

Applications are invited for a Postdoctorate Research Associate to join our recently awarded NERC grant “Mapping the prevalence of SARS-CoV-2 in sewage and environmental samples”, led by Professor Vincent Savolainen and in collaboration with several groups at Imperial College (Ransome, Bell, Woodward, Jones).

Mapping the prevalence of COVID-19 cases is essential for designing and tracking the efficacy of control policies, such as social distancing and isolation. Community-level estimates of disease prevalence should be sufficient to develop these mitigation strategies - especially when the disease is widespread and infection is driven by community transmission. Given that there is now good evidence that SARS-CoV-2 RNA is detectable in faeces for prolonged periods (even for otherwise asymptomatic individuals), it may be possible to map the prevalence of COVID-19 using sewage samples. You will be part of a multidisciplinary team of ecologists, virologists and modellers, who are testing sewage, connected freshwater bodies and wildlife for SARS-CoV-2 and related coronaviruses across the UK.

Your main role will be to help characterise new coronaviruses in bats by assembling sequence reads from next generation sequencing (e.g. Illumina read from RNA extractions of faecal samples). The potential for sewage outflows in the environment to contribute to transmission to humans and wildlife will also be investigated by assessing viral infectivity from environmental samples. You will help to run coronavirus infectivity assays, alongside our technician, in our dedicated containment level 3 (CL3) laboratory at Imperial College. You will also help coordinate the collection and delivery of sewage and environmental samples from across the UK.

#### Duties and responsibilities

Your main role will be to assemble sequence reads from next generation sequencing data (e.g. Illumina read from RNA extractions of faecal samples) and to characterise coronaviruses from bats, other wildlife and/or other environmental samples.

The potential for sewage outflows in the environment to contribute to transmission to humans and wildlife will also be investigated by assessing viral infectivity from environmental samples. You will help to run coronavirus infectivity assays in our dedicated CL3.

You will also help coordinate the collection and delivery of sewage and environmental samples from across the

UK.

Essential requirements

Hold a PhD (or equivalent research, industrial or commercial experience) in genetics, virology, molecular ecology or a closely related discipline

Practical experience in a broad range of techniques including genome/transcriptome/virome assembly

Knowledge of metagenomics and RNA-seq

Should you require any further details on the role please contact: Vincent Savolainen vsavolainen@ic.ac.uk.

To apply visit <https://www.imperial.ac.uk/jobs/-description/NAT00842/covid-19-research-associate>

Prof. Vincent Savolainen Professor of Organismic Biology

Director of the Grand Challenges in Ecosystems and the Environment Initiative

Imperial College London Department of Life Sciences Silwood Park Campus Buckhurst Road, Ascot, SL5 7PY, UK

Tel +44 (0)20 7594 2374  
v.savolainen@imperial.ac.uk skype vincent.savolainen1  
www3.imperial.ac.uk/people/v.savolainen

“Savolainen, Vincent” <v.savolainen@imperial.ac.uk>

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## Kiel PDF PhD EvolutionMicrobesCelegans

PhD position and postdoc position on the evolution of *C. elegans*-microbiota interactions

Deadline for applications: 31 January 2021

The positions are based in the Schulenburg group at the University of Kiel in Northern Germany (<https://www.uni-kiel.de/zoologie/evoecogen/>). The PhD position is available for 3 years, the postdoc position for 2.5 years. Both positions can start as soon as possible. They are part of a larger research initiative on the origin and function of Metaorganisms (<https://www.metaorganism-research.com/>).

Area of research: The microbiome can affect host fitness and it can change fast, either in community composition or through genetic changes. As a consequence, the microbiome can influence how the host organism copes with novel environments, thereby potentially affecting host evolution. This project aims at understanding how

exactly the microbiome modulates host adaptation. The project is based on evolution experiments, in-depth phenotyping, genomics and/or functional genetic analyses. For orientation, see the following papers:

Kolodny & Schulenburg 2020 (<https://doi.org/10.1098/rstb.2019.0589>) Dirksen et al. 2020 (<https://doi.org/10.1534/g3.120.401309>) Papkou et al. 2019 (<https://doi.org/10.1073/pnas.1810402116>)

Expected competences of the successful applicants: Excellent background in evolutionary biology and/or host-microbiota research and/or *C. elegans* research. Ideally publications in any of the above areas. Competences and experience in experimental work in evolutionary biology (ideally performance of evolution experiments), and/or work with *C. elegans* and/or microbiota analysis. Comprehensive skills in statistical data analysis. Ideally skills in genome data analysis, microbiological techniques, and/or functional genetic analyses. Excellent English language skills.

Additional information: The University is committed to increasing the proportion of women in research and teaching and therefore strongly encourages applications from appropriately qualified women. Women will be given priority in cases of equal aptitude, ability and professional performance.

The university is committed to the employment of severely disabled persons. Therefore, applicants with severe disabilities will be given preferential consideration if they are suitable.

We expressly welcome applications from people with a migration background.

Applications: Applications should include a motivation letter (max. 2 pages long), CV, publication list, names and contact details of two referees (who are familiar with the applicant's work), and copies of certificates (only for the last relevant university degree).

Deadline for applications is 31 January 2021. Applications should be sent as a single pdf-document by email to: Prof. Dr. Hinrich Schulenburg, hschulenburg@zoologie.uni-kiel.de

Hinrich Schulenburg

Evolutionary Ecology and Genetics Christian-Albrechts-Universitaet zu Kiel 24098 Kiel, Germany Tel: +49-431-880-4143/4141 Email: hschulenburg@zoologie.uni-kiel.de

[www.uni-kiel.de/zoologie/evoecogen/](https://www.uni-kiel.de/zoologie/evoecogen/) <https://transevo.de/> <http://www.evolbio.mpg.de/-3248501/antibioticresistance> [www.kec.uni-kiel.de](http://www.kec.uni-kiel.de)  
[www.metaorganism-research.com](http://www.metaorganism-research.com) [www.evolbio.mpg.de/-imprs](http://www.evolbio.mpg.de/-imprs) [evolung.fz-borstel.de](http://evolung.fz-borstel.de)

Hinrich Schulenburg <hschulenburg@zoologie.uni-kiel.de>

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## MaxPlanck Jena PredatorCognitionPreyDefence

A postdoc is available to work with Dr Hannah Rowland (Max Planck Institute for Chemical Ecology) and Dr John Skelhorn (University of Newcastle) to explore various aspects of masquerade.

Background: Masquerade is an anti-predator defence strategy in which species resemble inedible objects, often inanimate, such as twigs, stones and bird-droppings (Skelhorn, 2015; Skelhorn, Rowland, & Ruxton, 2010; Skelhorn, Rowland, Speed, & Ruxton, 2010). Masqueraders are misclassified by their predators for the object that they resemble (Skelhorn, Rowland, Speed, et al., 2010). The function of masquerade has been tested and confirmed in the lab, but not in the field.

This post: we will explore the anti-predator benefits of masquerade in the field, and the information ecology that predators do (or don't) use about masquerade. The appointed postdoc will design and conduct a series of field-based predation experiments using artificial prey, and work towards using social network information about predation that can be collected on PIT tagged populations of bird-predators.

Requirements: We are looking for someone who can lead field-based predation experiments, and manage a team of field assistants. Excellent field skills will be paramount, including experience of creating artificial prey, conducting intensive and long-periods of predation experiments, and managing multiple sites and experimental blocks. Applicants should have the strong communicative skills that fieldwork requires. Experience in studying animal cognition is desirable. The candidate will also be willing to learn how to incorporate social behavioural data into their experimental design and analysis. This project will involve fieldwork in both Germany and the UK, and will be based in Germany.

Further information

Specific skills and experience: please see <https://drive.google.com/file/d/17BVF4cxbE3jGihtF02e6xN6jRbc-xGr/view?usp=sharing> Start date: March 2021 or sometime shortly after. Flexibility in start date may be required (and provided) in light of the current pandemic.

Funding: Until 31/01/2023

Location: Max Planck Institute for Chemical Ecology, Field sites: Jena, Germany, and University of Cambridge-Madingley Wood

Can I work remotely? Field-based components of the research will take place in Jena and Cambridge. It is anticipated that the appointed postdoc will spend approx. 9-12 months in the field (not necessarily continuously). The candidate will be based in Jena, but may be able to work remotely especially in light of the current pandemic.

Is there money to cover the postdoc attending conferences? Yes. Roughly 1 per year of appointment.

How to apply? Submit your CV, a cover letter outlining how you fit the selection criteria, and names of 3 people who will write you a letter of recommendation predator-sandpreympg@gmail.com

For further information contact Hannah Rowland predatorsandpreympg@gmail.com

Closing date 12.02.21

Hannah Rowland <hrowland@ice.mpg.de>

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## Michigan State U Plant Resilience

We are excited to announce that the Plant Resilience Institute at Michigan State University is planning a new postdoctoral fellowship program in plant resilience broadly defined. The goals of the program will be to advance our understanding of the resilience of plants and plant-systems in a variable and changing world and to enhance collaboration within the Plant Resilience Institute by recruiting dynamic early career researchers.

Fellows will identify two faculty members to serve as sponsors and advisors and design a collaborative research project on a plant resilience topic that bridges at least two labs. At least one of the sponsors needs to be a core faculty member of the Plant Resilience Institute (see below for link). We expect to start two fellows in the first year of the program. The initial appointment will be for one year and renewable for up to three years of total support with a \$60k/yr salary and \$10k/yr in research funds.

We will begin reviewing applications on February 3rd. We strongly encourage interested candidates to reach out to potential Plant Resilience Institute sponsors as

soon as possible. Early communication will facilitate development of a strong application by the due date.

Please see here for more information: <https://plantresilience.msu.edu/pri-postdoctoral-fellows/> Plant Resilience Institute faculty members can be found here: <https://plantresilience.msu.edu/directory/faculty/> Please e-mail questions to committee co-chairs: Hatem Rouached (rouached@msu.edu) and David Lowry (dlowry@msu.edu).

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.

David Lowry <dlowry@msu.edu>

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## NaganoU EelEvolution

Job Opportunities:

Postdoctoral Researchers (temporary job)

Nagano University - Nagano, Japan

Nagano University is planning to seek a few trained postdoctoral researchers (Statistician and/or Pop-up Argos tag researcher) to work with a team on a study about the population dynamics and fisheries management of Japanese eel (Project Head: Professor Hiroshi Hakoyama). The project is supported by the Fisheries Agency of Japan, and is going to last for at least several years. The outcome of the project is expected to contribute to discussions at FAO, IUCN and CITES and policy design and implementation on the management of Japanese eel.

Duties & Responsibilities

(1) Statistician (frequentist, time-series analysis, mixed-effects models, fisheries management, mathematical modeling): analyzing spatiotemporal multivariate time-series of fisheries and environmental data of Japanese eel in frequentist approaches; developing statistical and mathematical methods for fisheries management.

(2) Pop-up Argos tag, experimental researcher, field-worker: conducting field experiments to track silver eels using pop-up Argos tags at several locations in Japan; conducting laboratory experiments using yellow eels for developing the new pop-up Argos tag cooperating with Little Leonardo Co.

Moreover, all postdoctoral researchers should cooperate

with each other, write papers with co-workers, participate in team discussions, assist the members of the team and the lab in all respects, and accept other duties as assigned.

Information

Minimum education: Ph.D. in a related field

Applications: When applying for this position, please send a CV/cover letter and letters of recommendation from the research supervisor or the department head to Hiroshi Hakoyama, [hiroshi.hakoyama@nagano.ac.jp](mailto:hiroshi.hakoyama@nagano.ac.jp) by e-mail with the title "Nagano\_2021".

Deadline to apply: Ongoing (Open until filled)

Location: 1088 Komaki, Ueda, Nagano 386-0031, Japan

Employment period: from 2021/04/01 (if possible, as soon as possible) to 2022/03/31. The employment period may be extended based on performance and availability of funding.

Regular work hours: 8:30-17:30 (Break time 12:00-13:00), Monday-Friday

Salary: 360,000–470,000 yen a month (according to research experience and achievements). The absence deduction will be calculated based on the amount of absence hours/days in accordance with the laws on employment.

Employee benefit: Employee must join the Japanese national social (health) insurance and pay employment insurance in accordance with laws of Japan. A part of the costs are borne by Employee and deducted from the monthly post-tax remuneration each month on payday (inquiry e-mail address: [soumu@nagano.ac.jp](mailto:soumu@nagano.ac.jp)). Nagano University will pay the cost of the LCC ticket from your country to Japan at the start of contract, and also pay the cost of the return ticket at the end of contract. Nagano University will pay the cost of a registered guarantor for your apartment.

<[hiroshi-hakoyama@nagano.ac.jp](mailto:hiroshi-hakoyama@nagano.ac.jp)>

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## Postdoc:UCaliforniaLosAngeles PlantPhylogenomics

Postdoctoral position: Hawaiian plant phylogenomics, systematics, and historical biogeography

Department of Ecology and Evolutionary Biology Zapata Lab, University of California, Los Angeles <https://www.zapatalab.org> Project

We are hiring for a NSF-funded postdoctoral research position. The research will join the lab of Dr. Felipe Zapata, located in the Department of Ecology and Evolutionary Biology at the University of California, Los Angeles (UCLA). The Zapata Lab studies questions in evolutionary and comparative biology integrating field biology, natural history collections, genomics, and computational biology. Learn more about the Zapata Lab at <https://www.zapatalab.org> The postdoctoral researcher will use available collections supplemented by collaborative fieldwork in Hawaii to perform molecular work for phylogenomic analyses to study the systematics, taxonomy, biogeography, and ecology of one dozen largely unsequenced clades of Hawaiian endemic plants. The research will advance the systematics of understudied Hawaiian plant groups as well as inform the biogeography and evolution of the Hawaiian flora using new phylogenetic models for historical biogeography. The postdoc will have opportunities to mentor undergraduate researchers, to teach at computational biogeography workshops, publish first-author articles, and present at national conferences.

The postdoctoral researcher will also interact regularly with other collaborators on the project, including Dr. Michael Landis (Washington University in St. Louis-WUSTL), Dr. Nina RÃnsted (National Tropical Botanical Garden, Hawaii), Dr. Warren Wagner (Smithsonian Natural History Museum), Dr. Bruce Baldwin (UC Berkeley), and Dr. Will Freyman (23andMe). In addition to this position, the team will recruit a postdoctoral researcher to be hired by WUSTL, who will develop inference methods for modeling historical biogeography, lineage diversification, and paleogeographical dynamics in the Bayesian phylogenetic modeling framework, RevBayes (revbayes.com). Both postdocs will be in close contact to validate and inform theoretical models with empirical data. A third postdoctoral position based at NTBG in Hawaii focused on plant systematics of a selection of the twelve lineages will be advertised

later and could be an extension of the position in the Zapata lab at UCLA.

### Qualifications

Candidates must hold a PhD in biology, evolution, systematics, or a related field, and have a track-record of publishing research in phylogenomics, preferably with a strong botanical interest. The applicant must have significant experience in wet lab techniques for genomics, preferable with plants and non model systems. Relevant techniques include DNA extraction from difficult/limited tissues and taxa (from fresh, silica dried, and herbarium samples) and library preparation approaches. Previous experience with the Angiosperm 353 technique is preferable, but not required. In addition, the candidate must have demonstrated experience with standard bioinformatics practices in phylogenomics including familiarity with Unix-based Operating Systems, use of high performance computing environments, and analysis and manipulation of high throughput sequence data, including but not limited to, quality control, assembly of loci (from enriched libraries and reference-based approaches), and phylogenetics software. Experience with biogeographical analyses is an advantage but not required.

### Employment

The position is 1 year full-time (~37.5 hrs/wk) with potential for extension up to 2 years and follows the UCLA payscale, starting at \$53,460. Intended starting date is May 1st, 2021, subject to covid19 restrictions and potential visa requirements. The candidate must hold a PhD degree at the start date of the position. UCLA offers outstanding benefits, including health, dental, vision, and life insurance (<https://www.postdoc.ucla.edu/resources/appointment-information/postdoctoral-scholar-health-benefits/>). Los Angeles is a large, multicultural metropolis in Southern California, with excellent access to food, music, art, and nature.

### Application

Application review will begin on Feb 1st, and continue until a candidate is hired.

To apply for this position, visit <https://recruit.apo.ucla.edu/JPF06082> and enter job id JPF06082. The application will require you to submit (i) your current CV, (ii) a 1-2 page cover letter that briefly addresses your background and research interests, previous research experience and accomplishments, and your fit for this position, (iii) two relevant research papers (preprints, submitted, published, etc.) that you authored, and (iv) contact information for two potential references.





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

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## SangerInst InsectDiversity

A postdoctoral opportunity to work on targeted sequence data generation and analysis for two projects

- one aiming to study species dynamics and interactions using DNA barcoding over time and space for 1million flying insects in the UK - one aiming to study mosquito species diversity, population structure, and malaria transmission using targeted sequencing of multiple nuclear loci for 500k Anopheles mosquitoes in Africa over 5 years.

Please find more information and link to apply here: <https://jobs.sanger.ac.uk/vacancy/postdoctoral-fellow-435393.html> Any questions, please get in touch at [mara@sanger.ac.uk](mailto:mara@sanger.ac.uk)

Thank you, Mara Lawniczak

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

Mara Lawniczak <[mara@sanger.ac.uk](mailto:mara@sanger.ac.uk)>

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## Senckenberg Frankfurt ComparativeGenomics

Postdoc Position in Comparative Genomics

The Hiller Lab at the LOEWE Center for Translational Biodiversity Genomics (TBG) in Frankfurt, Germany is looking for an ambitious Postdoc to investigate the genomic basis of phenotypic differences between species.

Project: The project aims at linking phenotypic adaptations to genomic differences, which is a central goal in the genomics era. The postdoc is expected to capitalize on a powerful repertoire of genomic methods as

well as genome alignments and comparative data for several hundred mammals and birds that the lab has generated. A large list of interesting adaptations including metabolic, physiological and morphological traits in bats, dolphins, other mammals and vertebrates is available to be studied, and choices can be influenced by the preference of the postdoc.

Our lab: The mission of our group is to understand how nature's fascinating phenotypic diversity has evolved and how it is encoded in the genome. Work in the lab includes genome sequencing and assembly, genome alignment and annotation, development and application of comparative genomic methods to discover differences in genes and cis-regulatory elements, and the use of statistical approaches to link phenotypic to genomic changes [1-8].

Our lab is part of TBG (<https://tbg.senckenberg.de/>) and Senckenberg Research Society, and is based near the city center of Frankfurt am Main, Germany. The TBG provides access to cutting-edge computational infrastructure (HPC, genome browser) and lab facilities to sequence genomes of diverse creatures. English is the working language in our lab. Frankfurt is a vibrant and highly-international city at the heart of Europe that combines a skyscraper skyline with ample park and green areas.

Requirements: Applicants should have a degree in bioinformatics/computational biology, genomics or a related area, and a strong publication record. Solid programming skills in a Linux environment and experience with shell scripting and Unix tools are required. Previous experience in large-scale comparative genomic data analysis is an advantage.

How to apply: If interested, please email (i) your CV including publication list and contact information for at least two references and (ii) a summary of previous research experience (max 1 page) to Michael Hiller ([Michael.Hiller@senckenberg.de](mailto:Michael.Hiller@senckenberg.de)). *Further information :*

*<https://tbg.senckenberg.de/personen/hiller/>The position is fully funded. Salary and benefits are according to TVHE 13100%. The position will be initially for 2 years, but funding is available*

Application deadline is February 26th 2021. The position is available immediately and the search continues until the position has been filled.

Recent publications: [1] Jebb et al. Six reference-quality genomes reveal evolution of bat adaptations. *Nature*, 583, 578-584, 2020 [2] Huelsmann et al. Genes lost during the transition from land to water in cetaceans highlight genomic changes associated with aquatic adaptations. *Science Adv*, 5(9), eaaw6671, 2019 [3] Hecker et al.

Convergent gene losses illuminate metabolic and physiological changes in herbivores and carnivores. *PNAS*, 116(8), 3036-3041, 2019 [4] Roscito et al. Phenotype loss is associated with widespread divergence of the gene regulatory landscape in evolution. *Nature Communications*, 9:4737, 2018 [5] Langer et al. REforge associates transcription factor binding site divergence in regulatory elements with phenotypic differences between species. *MBE*, 35(12), 3027-3040, 2018 [6] Lee et al. Molecular parallelism in fast-twitch muscle proteins in echolocating mammals. *Science Adv*, 4(9), eaat9660, 2018 [7] Sharma et al. A genomics approach reveals insights into the importance of gene losses for mammalian adaptations. *Nature Communications*, 9(1), 1215, 2018 [8] Nowoshilow et al. The axolotl genome and the evolution of key tissue formation regulators. *Nature*, 554(7690), 50-55, 2018

Michael Hiller, PhD Professor of Comparative Genomics LOEWE Centre for Translational Biodiversity Genomics, Senckenberg Society for Nature Research & Goethe University, Frankfurt am Main, Germany

Michael Hiller <michael.hiller@senckenberg.de>

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## Southampton UK PlasticityGenomics

Dear Evoldir,

We are looking to recruit a postdoc for our project looking at the role of plasticity in adaptive divergence. We are using a new model system to test previous theory surrounding the importance of plasticity. Please find below some key info and check out: <https://jobs.soton.ac.uk/Vacancy.aspx?id=24541> Best wishes, Mark (m.chapman@soton.ac.uk)

We seek a Research Fellow to work on the project 'The contribution of plasticity to adaptive divergence: domestication as a model system'. The NERC/BBSRC co-funded project provides support until 31/12/2021 (with the possibility of extension) from 1st March 2021 (or as soon as possible thereafter) to work with Dr Mark Chapman in the Ecology and Evolution group at the University of Southampton (<https://www.southampton.ac.uk/biosci/about/staff/mc1c12.page>), co-supervised by Dr Tom Ezard in Ocean and Earth Science (<https://www.southampton.ac.uk/oes/about/staff/tele12.page>).

The goal of this project is to study the evolution of plas-

ticity, comparing crops to their wild relatives, as a model for understanding the genetic basis and role of plasticity in adaptive divergence and the early emergence of new taxa. The project has been running for 2 years and we have generated genomic, transcriptomic and phenotypic data from multiple generations of plants. This will allow the candidate to compare both acclimation and adaptation responses to stress. – Dr Mark A. Chapman  
M.Chapman@soton.ac.uk +44 (0)2380 594396

Biological Sciences University of Southampton Life Sciences Building 85 Highfield Campus Southampton SO17 1BJ

Mark Chapman <markchapman4774@gmail.com>

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## SussexU TransposableElements

Applications are invited for the post of Postdoctoral Research Fellow in Molecular Biology/Genetics based in the School of Life Sciences at the University of Sussex; one of the UK's most prestigious universities.

Undertaking research in a vibrant, inter-disciplinary research environment with an excellent international reputation, you will work as a key member of a research team investigating the function and evolution of plant genomes and transposable elements (TEs).

TEs represent the majority of eukaryotic DNA, for example they occupy 55% of the human genome and up to 80-90% of the genomes of some plants. Our lab is interested in understanding the interactions between TEs and their host genomes by focusing both on mechanistic and evolutionary perspectives.

We are seeking for a skilled molecular biologist to investigate the interplay between the 3D genome and transposable elements. In particular, we are aiming to elucidate the role of chromosome topology in guiding TE integration patterns. For our studies, we will use the plant model species *A. thaliana*. You will perform TE activation assays, identify TE integration sites by deep sequencing and analyse epigenetic modifications.

The aim of the project is to combine analyses of TE, epigenetic and chromosome conformation capture (Hi-C) data to characterize the epigenetic and 3D structure of the host cells where the new TE copies have inserted. To this end, the project includes collaborations with colleagues in UK (Dr. Hans-Wilhelm Nuetzmann, Dr. Davide Michieletto) and US (Prof. Keith Slotkin).

This is an excellent opportunity for a molecular biologist wishing to apply their skills to an innovative area of science. Through the collaborations, you will have the opportunity to further acquire new skill sets, for example in Hi-C technologies. The position is supported by a grant of the Royal Society and is associated with generous research funds. We aim for funding to be available after the completion of the Royal Society support.

The position is primarily lab-based. You should have a PhD in Molecular Biology/Genetics, excellent molecular biology skills and be interested to work at the cutting-edge of plant genetics/epigenetics. Please contact Alexandros Bousios ([alex.bousios@sussex.ac.uk](mailto:alex.bousios@sussex.ac.uk)) for informal enquiries. To learn more about the lab, visit <http://www.sussex.ac.uk/lifesci/bousioslab/>, and to apply <https://www.sussex.ac.uk/about/jobs/research-fellow-ref-5294>. Alexandros Bousios, PhD Royal Society University Research Fellow

University of Sussex | UK

[alexandros.bousios@gmail.com](mailto:alexandros.bousios@gmail.com) | email <http://www.sussex.ac.uk/lifesci/bousioslab/> | www <http://infspire.org/> | www alexandros bousios | Skype

Alexandros Bousios <[alexandros.bousios@gmail.com](mailto:alexandros.bousios@gmail.com)>

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## UAlberta InsectMolecularEvolution

A postdoctoral position is available in the Agricultural and Ecological Entomology Laboratory under the supervision of Dr. Boyd Mori at the University of Alberta. The laboratory revolves around agricultural entomology using chemical, behavioural, and molecular ecological approaches to investigate insect-plant interactions and develop integrated pest management strategies for insect pests in field crops.

The candidate will investigate the mechanisms of insecticide susceptibility and tolerance of two key flea beetle pests of canola on the Canadian Prairies. This work will be conducted in collaboration with Dr. Nat Kav (University of Alberta) and other research institutes across Canada (Agriculture and Agri-Food Canada, University of Manitoba) and the USA (United States Department of Agriculture, Texas A&M University, University of Kentucky). Specific research activities include coordinating field collections and bioassays, resistance screening, generation of large genomic and transcriptomic datasets, and their analyses. In addition, the candidate may be involved in other ongoing projects in the laboratory re-

lated to insect genomics and host plant resistance. The candidate is expected to work both independently and as part of a large research team, and may supervise technical staff and students.

We are seeking a candidate with: §Strong interpersonal skills §Strong written and oral communication skills §Experience in wet-lab molecular biology (e.g. DNA/RNA extraction, PCR) §Experience in generating transcriptomic/genomic data (e.g. RNAseq, NGS library preparation, GBS) §Experience in bioinformatic analysis of high-throughput sequence data §Experience in entomological bioassays will be considered an asset, but not required §Minimum PhD in entomology, biology, genetics, or a similar field

Salary and Appointment: CAD \$50,000 plus health benefits per year. The appointment will be for one year (Start date: 1 May 2020, some flexibility), with the possibility of extension for two additional years (3 years total).

To Apply: Please forward your CV, letter of research interests, and contact information for three references to Dr. Boyd Mori ([bmori@ualberta.ca](mailto:bmori@ualberta.ca)). Please use "Insect Molecular Ecology PDF" in the subject line.

Closing date: Interested candidates should apply by February 28, 2021, but review of applications will commence immediately.

We thank all applicants for their interest; however, only those individuals selected for an interview will be contacted.

The University of Alberta is committed to an equitable, diverse, and inclusive workforce. We welcome applications from all qualified persons. We encourage women; First Nations, Métis and Inuit; members of visible minority groups; persons with disabilities; persons of any sexual orientation or gender identity and expression; and all those who may contribute to the further diversification of ideas and the University to apply.

Boyd A. Mori, PhD, PBIOL

Assistant Professor & NSERC Industrial Research Chair in Agricultural Entomology Department of Agricultural, Food and Nutritional Science 4-10 Agriculture/Forestry Centre University of Alberta Edmonton, AB, T6G 2P5

Tel: 780.492.6412 Fax: 780.492.4265

Boyd Mori <[bmori@ualberta.ca](mailto:bmori@ualberta.ca)>

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## UAutonoma Madrid NetworksPaleontology

### Postdoc in Network Analysis for Paleontology

We are looking for a highly motivated and dynamic researcher for a 2-year postdoc position, commencing April-May 2021. The candidate will work on understanding and modelling species interactions from the fossil record of the Las Hoyas site, a Lower Cretaceous (Barremian, 129-125 Mya) paleowetland from Spain, focusing on interspecific ecological interactions, and in applying and developing new algorithms to such end. The position will be based at the Unit of Paleontology, Dept. of Biology at the Universidad Autónoma de Madrid (UAM). Information on the department can be found at: <https://www.uam.es/Ciencias/DBIO>. Our group and research The successful candidate will be part of the Paleobiology Group at the UAM and CIPb- (Center for the integration of Paleobiology (<https://www.uam.es/-UAM/CIPB?language=es>)). We are a small group, offering a creative and stimulating working conditions in a dynamic research and teaching environment, addressing fundamental questions on vertebrate, invertebrate and plant macroevolution, on the one hand, and the multidisciplinary study of the Las Hoyas fossil site, connecting diversity, palaeoecology and taphonomy, in particular.

**Project description and your job** This project aims to describe and understand the community structure of the paleowetland, by taking a multi-species complex network modelling approach. The project's team and collaborators are compiling data on the biotic interactions of the fossil species to integrate these into multi-species networks. The models should be implemented by programming algorithms in languages such as Python, R or Julia. The postdoc is expected to focus specifically on the multi-species network analysis and programming, but other collaborative projects are open within the lines of research of the team (both in their areas of expertise and research on the site) and would also be expected to assist in teaching and supervise undergrad thesis projects in the Biology Undergraduate program. The project is funded by the Ministry of Science and Technology of Spain. Principal Investigators are: J. Marugán Lobón ([jesus.marugan@uam.es](mailto:jesus.marugan@uam.es)) and A.D. Buscalioni ([angela.delgado@uam.es](mailto:angela.delgado@uam.es)).

**Profile** We are looking for a highly motivated and enthusiastic scientist with the following competencies and

experience:

Essential experience and skills:

- A PhD in sciences (Biology and Ecology preferred, but Physics, Math and/or fields that tackle math extensively are accepted), at the time of expected start in the position.
- A reasonable publication record in international peer-reviewed literature.
- Experience with scientific data analysis and modelling.
- Experience with a computer language such as Julia, Python or R.
- Demonstrated communication skills and ability to work in teams.
- Excellent English skills, written and spoken.

Desirable experience and skills:

- Experience in Paleontology and in macroevolutionary approaches.
- Experience in working with inter-specific interactions and their evolutionary and ecological consequences.
- An interest in combining paleontological field work data with modelling.
- Experience in teaching and supervising undergraduate and MSc students.
- A curious and open mind-set

**Place of employment** The place of employment is at the Department of Biology, UAM, with direct collaboration with members of CIPb. The Universidad Autónoma's campus is situated in a beautiful suburban area less than 20' from the city and it's one of the best ranked universities in Spain. The city of Madrid is consistently rated among the most livable, culturally appealing and accessible cities in the world.

**Terms of employment** The employment as postdoc is a full time and fixed-term position for 2 years, starting in April-May 2021. Questions For further information please contact Profs. Jesús Marugán Lobón or Angela Delgado Buscalioni.

**Application procedure** Your online application must be submitted in English to the e-mail: [redk2123@gmail.com](mailto:redk2123@gmail.com), including the following documents/attachments - all in PDF format: 1. Motivated letter of application (max. one page). 2. Short CV incl. education, work/research experience, programming and language skills, plus other skills relevant for the position. 3. A certified/signed copy of PhD certificate. 4. List of publications.

**Application deadline** 25 February 2021, 23.59pm CET We reserve the right not to consider material received after the deadline, and not to consider applications that do not live up to the abovementioned requirements.

**The further process** After the expiry of the deadline for applications, the authorized recruitment management team will select applicants for assessment to

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

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## UBritishColumbia EvolMarineMeiofauna

Postdoctoral Research Position: Evolutionary Morphology of Marine Meiofauna

Applications are invited for a three-year postdoctoral research fellowship centered on species discovery, evolutionary morphology and trophic/symbiotic interactions of marine meiofauna. As a member of the Leander Lab ([www3.botany.ubc.ca/bleander](http://www3.botany.ubc.ca/bleander)) at the University of British Columbia and in collaboration with researchers at the Hakai Institute ([www.hakai.org](http://www.hakai.org)), the PDF will have the opportunity to apply their specific expertise in marine organismal diversity and natural history by routinely sampling novel meiofaunal animals from the Pacific Northwest. The field collections and sample-specific processing will primarily target different marine environments near the Hakai field stations on Quadra Island and Calvert Island ([www.hakai.org/quadra](http://www.hakai.org/quadra) and [www.hakai.org/calvert](http://www.hakai.org/calvert)). The goals of the research are to discover novel organisms and characterize their morphological traits, behaviors, feeding preferences, symbiotic/parasitic interactions and phylogenetic relationships using high-resolution microscopy and genetic/genomic techniques.

The primary responsibilities of the position include leading fieldwork, collecting molecular and morphological data using state-of-the-art approaches, building manuscripts for publication, presenting research findings at conferences, and contributing to the day-to-day training of other researchers in the lab. The candidate is encouraged to develop their own research ideas and will be part of a dynamic team of other researchers at UBC and the Hakai Institute with expertise in marine biodiversity. The successful applicant must have a PhD in a relevant field and a competitive publication record centered on comparative anatomy, evolutionary biology, systematics, molecular phylogenetics and high-resolution microscopy (e.g., DIC-LM, CLSM, SEM, TEM and FIB-SEM) of marine invertebrates. This three-year PDF position is paid at a rate of \$55,000 CAD per year plus Mandatory Employment Related Benefits with an opportunity for renewal provided satisfactory performance and funding availability.

To apply, please send a concise statement of research interests, CV and the names/emails of three references as a single PDF to Brian Leander ([bleander@mail.ubc.ca](mailto:bleander@mail.ubc.ca)). Review of applications will begin on March 1, 2021 in anticipation of filling the position on September 1, 2021 (negotiable).

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person.

“Leander, Brian” <[bleander@mail.ubc.ca](mailto:bleander@mail.ubc.ca)>

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## UChicago HumanStatisticalGenetics

A postdoctoral scholar position is available in the research group of Dr. Xuanyao Liu at the University of Chicago. The Liu lab develops statistical methods to understand the genetic basis of complex traits. The exact projects for the scholars will be flexible, though based around trans gene regulation and complex traits, understanding genetic architectures of cis and trans-gene expression regulation, understanding trans-ethnic genetic architectures of gene expression and complex traits, and improving polygenic score portability. The scholar will be working closely with me, and my goal is to provide ample supervision and support for the scholar to be successful in academia and industry. The candidate will also benefit from training at a campus with reinforcing strengths in statistical genetics and human genetics. We maintain close interactions with groups focusing on statistical/computational problems in human genetics (e.g., Stephens, Novembre, Li, He, Imm, Abney and Dahl) and genetic studies of gene regulation (e.g., Gilad, Li). Suitable candidates may come from a wide variety of quantitative / data science backgrounds. Those with strong expertise in computational and statistical genetics will be preferred. The expected start date is negotiable, and the salary will be competitive and based on the level of experience. To apply please send a brief cover letter, curriculum vitae, and contact information for two references to [xuanyao@uchicago.edu](mailto:xuanyao@uchicago.edu). Please see <https://voices.uchicago.edu/liulab/members/> to learn

more about the group.

Many thanks,

Xuanyao

Xuanyao Liu <xuanyao.yao@gmail.com>

## UHelsinki ComparativeGenomics

Insect Symbiosis Ecology and Evolution Research Group at the Organismal and Evolutionary Research Program, the University of Helsinki, Finland invites applications for a

### POSTDOCTORAL RESEARCHER

in Comparative genomics, Bioinformatics, Symbiosis, Microbiome, Insects

The project is in collaboration with Uppsala University, Sweden and it is a fully funded 2-year postdoc position.

The aim of the project is to investigate genomic patterns of evolution in maternally inherited symbionts that have transferred horizontally, and showed the ability to established in naive hosts. The postdoc will utilize genomic assemblies of diverse microbial endosymbionts of Lepidoptera to conduct comparative genomic studies. The tasks of the postdoc will include bioinformatic analysis of DNA and RNA-seq data and writing of manuscripts. Additional duties such as preparing DNA extractions for additional sequencing from available material, microinjection, microscopy, cell culture and insect rearing, might also be completed depending on the interests of the chosen candidate. For this position experience in analyses of next-generation sequencing data is necessary. We are thus seeking a candidate with a PhD degree in evolutionary biology, genetics/genomics or bioinformatics.

The position is available in the group of Dr. Anne DUPLOUY, starting as soon as possible, no later than May 2021.

Position is currently funded for 2 years, with potential extension for up to an extra year. There are also several funding opportunities that the candidate may consider acquiring their own funding (from at least both Finnish and European funding agencies).

Please see here for further information about the hosting research group: <https://researchportal.helsinki.fi/en/organisations/wwwanneduplouynet> Collaborators include Dr. Lisa Klasson from Uppsala University, Swe-

den: <https://katalog.uu.se/profile/?id=N0-409> . The salary of the postdoctoral researcher will be based on level 5 of the demands level chart for teaching and research personnel in the salary system of Finnish universities. In addition, the appointee will be paid a salary component based on personal performance. The starting gross salary of the postdoctoral researcher will be ca. 3200-3500 euros/month, depending on the appointees' qualifications and experience.

The application should include the following attachments as a single pdf- file (in English): 1) a short statement on your background and motivation to join the research group (How do you fit?, what would you bring?, what do you seek?, ...?), 2) CV, 3) list of publications (preprints included and quick description of your contributions to the works), and 4) the names and contact details of at least two references.

To apply, please submit the application through the University of Helsinki electronic recruitment system by clicking on Apply for the position. Internal applicants (i.e., current employees of the University of Helsinki) please submit your applications through the SAP HR portal.

<https://www.helsinki.fi/en/open-positions/-postdoctoral-researcher-in-comparative-genomics-bioinformatics-symbiosis-microbiome-insects> The closing date is February 15th, 2021 but review of applications will begin immediately and continue until the position is filled.

For more information: Anne Duplouy, [anne.duplouy\(at\)helsinki.fi](mailto:anne.duplouy(at)helsinki.fi)

The University of Helsinki and the ISEE research group are strongly committed to diversity and equity, and welcome applications from persons of any background, who may contribute to the further diversification of ideas.

Thank you

Dr. Anne DUPLOUY

Academy of Finland Research Fellow

Insect Symbiosis Ecology and Evolution (ISEE), PI

Organismal & Evolutionary Biology Research Programme (Organismi- ja evoluutiobiologiantutkimusohjelma) Faculty of Biological & Environmental Sciences University of Helsinki, Finland

[www.anneduplouy.net](http://www.anneduplouy.net) @duplouy\_anne

“Duplouy, Anne M R” <[anne.duplouy@helsinki.fi](mailto:anne.duplouy@helsinki.fi)>

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**UHohenheim**  
**PlantEvolutionaryBiochemistry**

Evolutionary biochemistry of plant hydrocarbon biosynthesis ??? 65% Scientist position (3 years) at post-doc or PhD student level

We seek a highly motivated person as a PhD student or post-doc with a keen interest in evolutionary biochemistry in the context of plant hydrocarbon (especially alkene) biosynthesis. The successful candidate will be part of an international team investigating the ecological, molecular and genomic basis of pollinator-mediated reproductive isolation and ecological speciation between sexually deceptive orchids of the genus *Ophrys*.

The project seeks to biochemically characterise key genes and proteins underlying the biosynthesis of pollinator-relevant hydrocarbon-based floral odour. In particular, it will aim to characterise the substrate specificities of very-long-chain fatty acid (VLCFA) biosynthetic enzymes such as ??-ketoacyl-CoA synthases (KCSs) and aldehyde decarbonylases (CER1/CER3 homologues) in a nonmodel plant, using heterologous expression in other organisms (e.g. yeast or other plants), purification and in vitro activity assays as well as analysis via GC/MS. Results will be incorporated in an evolutionary analysis of protein function. For background information on the study system, please see e.g. Schl??ter & Schiestl (2008, *Trends Plant Sci.*), Schl??ter & al. (2011, *PNAS*) and Sedeek & al. (2013, *PLoS One*; 2016, *Curr. Biol.*).

In addition to research, this position will also involve teaching basic plant science/botany at undergraduate level. While the working environment is primarily English-speaking, German will be required in the context of teaching. The ideal candidate should be highly motivated and able to articulate her/his motivation for this project clearly in the cover letter. S/he should be intellectually rigorous, well organised, scientifically independent and resilient, with a thorough understanding of plant biochemistry (especially VLCFA synthesis), plant molecular and evolutionary biology. The candidate is expected to be proficient and independent in the molecular lab, with experience in recombinant protein expression, protein biochemistry and GC/MS analysis. Ideally, also with some experience with HPLC and data analysis in R, genomic techniques and phylogeny.

Proficiency in English and good communication skills

are essential and the proven ability to carry out research independently. German skills and the willingness to gain proficiency and fluency in German are also highly desirable. Academically, this position requires either (a) a completed MSc degree (or equivalent) in biology, biochemistry, molecular biology or a related discipline, allowing the enrolment as a PhD student, or (b) a PhD degree to work as a post-doc. If applying at post-doc level, experience in student/TA supervision is expected as well as the (willingness to gain) experience in writing grant applications.

We offer a 3-year position as a post-doc or PhD student at the University of Hohenheim, Germany (initial salary level 65% TVL-E13 commensurate to experience), an innovative and international research university in the south of Stuttgart. The pleasant campus is close to the airport and hosts a well equipped research infrastructure, a baroque palace, and rambling parks. The successful candidate will be a member of the Institute of Biology and will work in a young, active and interdisciplinary environment and will have access to state-of-the-art tools and techniques. The University of Hohenheim seeks to increase the proportion of women in research and teaching and strongly encourages qualified female scientists to apply. With equal qualifications, preference will be given to candidates with disabilities.

Your application should consist of a letter of motivation (1-2 pages), your CV and publication list, and the names and e-mail addresses of three academic referees. The letter of motivation should detail why you are personally interested in the project, why you find it relevant and why you think you are well-suited to undertake it. Please send your application (or any requests for further information) electronically to Prof. Philipp Schl??ter (sekretariat-210@uni-hohenheim.de) as a single PDF file. Deadline for applications is 14 February 2021 and interviews are tentatively planned for 22 February 2021. Expected start date is 1 April 2021.

Margaret Eppli <m.eppli@uni-hohenheim.de>

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## UHohenheim ResAssist PopGenMolEvol

University of Hohenheim, Institute of Animal Science,  
Stuttgart, Germany

\*Postdoctoral Research Assistant in Population Genetics/Molecular Evolution\*

The Department of Livestock Population Genomics at the University Hohenheim (Chair Prof. Dr. Martin Hasselmann) invites applications for a

Postdoctoral Research Assistant (m/f/d).

Starting date: March 1st 2021 or by agreement  
Duration: 3 Years (with the possibility of extension for another 3 years)  
Salary: German salary scale (TV-L E13), 100% Teaching obligation (in German or English):  
4 hours per week

We invite applications from highly motivated, team spirited and creative candidates who have received a PhD/doctorate in the field of Population Genetics/Evolutionary Biology. A strong background in population genetics, evolutionary biology, bioinformatics and a variety of molecular techniques is required. Experiences in the analyses of high-throughput sequencing data, including e.g. whole genomes, transcriptomes and/or ddRAD are essential. Participation in moderate teaching at Bachelor/Master level (4 Semester periods per week) is expected. The successful candidate should bring a strong interest to investigate evolutionary processes of organismic interaction with their abiotic and biotic environment at the molecular level, the focus of our lab. We offer a stimulating scientific environment and well-equipped research laboratories, including experimental facilities (see also <https://popgenomik.uni-hohenheim.de/en> for more information on research projects).

The University of Hohenheim is a modern university with a long tradition in the fields of agricultural and natural sciences. Research and teaching are characterized by internationality, innovation, multidisciplinary, and consistency subject to high scientific standards. Embedded in an attractive and green environment, the University Hohenheim combines the advantages of a small campus area with the close vicinity to Stuttgart as lively and cultural centre.

The University of Hohenheim is an equal opportunity

employer that tries to increase the number of women in research and teaching. Applications of disabled persons will be given preference if appropriately qualified.

Please send your applications, including CV with list of publications, copies of degree certificates, detailed statement of research interest (1-2 pages) and names of 2-3 referees as one single pdf by email to Prof. Dr. M. Hasselmann, [martin.hasselmann@uni-hohenheim.de](mailto:martin.hasselmann@uni-hohenheim.de). For more information, please contact Prof. Dr. M. Hasselmann by email.

Applications are considered until the position is filled.

University of Hohenheim |Institute of Animal Science (460)|

Department of Livestock Population Genomics (460h)  
Garbenstrasse 17 | 70599 Stuttgart, Germany Tel: ++49 711-459 22481 (Office) | ++49 711-459 23581 (Secretary)

Web: <https://popgenomik.uni-hohenheim.de/>

Martin Hasselmann <[martin.hasselmann@uni-hohenheim.de](mailto:martin.hasselmann@uni-hohenheim.de)>

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## UIIdaho ComparativeGenomics

Postdoc: Genomics of Pipefishes and Seahorses

An NSF-funded postdoctoral position is available in Adam Jones' Lab at the University of Idaho to study the evolution and development of the male's brood pouch in syngnathid fishes (seahorses, pipefishes and seadragons). The project is being conducted in collaboration with Dr. William Cresko's group at the University of Oregon. The postdoc will be involved in studies of comparative genomics across the family Syngnathidae, investigations of brood pouch morphology, and characterization of the brood pouch microbiome. The position will be funded for two years, with the possibility of a third year. The postdoc will be based at the University of Idaho and will interact extensively with the Cresko Lab at the University of Oregon.

The University of Idaho is in Moscow, a small college town located in Northern Idaho on the Washington border. Moscow is widely considered to be a great place to live, and it's known for a pleasant downtown, active farmer's market, and nearby recreational opportunities. All of Moscow is within biking or walking distance of the University of Idaho. For more information about Moscow, see <https://visitmoscowid.com/>. The University of Idaho has very strong faculty in evolution



and genomics in multiple departments and interdisciplinary programs. Of particular note are the Bioinformatics and Computational Biology Program (BCB: <https://www.uidaho.edu/sci/bcb/people/faculty>) and the Institute for Bioinformatics and Evolutionary Studies (IBEST: <https://www.ibest.uidaho.edu/index.php>). In addition, the University of Idaho is only eight miles from Washington State University in Pullman, and faculty from the two institutions interact and collaborate extensively.

Minimum qualifications include: a Ph.D. in biological sciences, bioinformatics, or a related discipline; experience conducting research in genomics or evolutionary biology, as evidenced by publications in peer-reviewed journals; and evidence of strong written and oral communication skills. Experience analyzing next-generation sequence data and familiarity with the genomics of marine fishes are desirable but not required.

Apply at: <https://uidaho.peopleadmin.com/postings/-30003> Review of applications will begin January 15, 2021. The start date is flexible.

The University of Idaho is an equal opportunity/Affirmative Action/equal access employer.

Informal inquiries are encouraged and can be directed to Adam Jones ([adamjones@uidaho.edu](mailto:adamjones@uidaho.edu)).

“[adamjones@uidaho.edu](mailto:adamjones@uidaho.edu)” <[adamjones@uidaho.edu](mailto:adamjones@uidaho.edu)>

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## Uillinois UrbanaChampaign EvolutionPunctureMechanics

A postdoctoral researcher position is available in the Anderson lab in the Department of Evolution, Ecology and Behavior at the University of Illinois, Urbana-Champaign. The Anderson lab seeks a post-doctoral scholar with a strong interest in some combination of the following: biomechanics, fracture mechanics, impact dynamics, mathematical modeling and/or evolutionary analyses. The applicant will work alongside the PI and lab members to assess how physical principles underlying functional performance influence evolutionary processes. The focus of this specific project is how energy flow through biological puncture events impacts the evolution of these systems (e.g. teeth, spines and stingers).

Requirements:

§Ph. D. in biology or engineering

§Publication record in recognized journals

§Some experience in a combination of the following: comparative biomechanics, fracture mechanics (experimental or modeling), impact dynamics, and/or comparative evolutionary analyses.

The start date for this position is negotiable. Evaluation of applications will begin immediately and priority will be given to applications that are complete by March 1st. The position will remain open until a suitable candidate is found.

Please find the full advertisement with application instructions here: <https://www.philipslanderson.com/> Phil Anderson [andersps@illinois.edu](mailto:andersps@illinois.edu)

“Anderson, Philip S L” <[andersps@illinois.edu](mailto:andersps@illinois.edu)>

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## UMaine EcoEvolutionaryModeling

Postdoc position in eco-evolutionary modeling available starting Fall 2021!

We seek an enthusiastic postdoctoral researcher to join the EcoEvoMatics lab (<https://www.ecoevomatics.org>; principal investigator Dr. Andy Rominger) at the University of Maine.

We are seeking applicants with strong quantitative and computational backgrounds, as well as experience in next-generation sequencing-enabled approaches to studying biodiversity. The postdoc is expected to contribute to the Rules of Life Engine (RoLE; <https://role-model.github.io>) project, specifically expanding the functionality of the RoLE model and testing it across a diversity of datasets. These data come from close collaborators of the project and include impressive quantifications of the biodiversity in systems such as Hawaiian terrestrial arthropods (<https://nature.berkeley.edu/hawaiidimensions>), marine invertebrates in Palau (<http://mnd.ucmerced.edu/Research/Overview.html>), birds and arthropods in the Brazilian Atlantic Forest (<https://www.carnavallab.org/biodiversity-prediction>), and the entirety of publicly available data provided by the National Ecological Observatory Network (<https://www.neonscience.org>).

Qualifications: - Conferral of a PhD degree before 1 September 2021 - Experience with scientific computing, ideally including strength in Python, R, Bash, C++ - Experience with design of UX/UI for scientific software - Experience in developing open software as part of a

team (e.g. familiarity with Git and an online Git repository such as GitHub) - Familiarity with next generation sequencing approaches for the study of biodiversity (e.g. metabarcoding)

The EcoEvoMatics lab is jointly housed in the School of Biology and Ecology (<https://sbe.umaine.edu>) and the Maine Center for Genetics in the Environment (<https://umaine.edu/mcge>). The postdoc will also join a vibrant community of researchers working together as part of Maine-eDNA (<https://umaine.edu/edna>) and a network of collaborators contributing to the Rules of Life Engine project.

In the EcoEvoMatics lab we value diversity and strive to be a safe and welcoming space for all researchers. Please read more about our lab philosophy on our group website (<https://www.ecoevomatics.org/philosophy>).

The anticipated salary for this position is \$50,000 commensurate with experience and qualifications. Ideal start date is 1 September 2021 with some room for flexibility.

To apply please submit materials through the official job posting: <https://umaine.hiretouch.com/job-details?jobid=66549>. Required materials are:

- a cover letter discussing your interest in joining the EcoEvoMatics lab and the Rule of Life Engine project; this letter is a space to discuss your research interests, desired outcomes of a postdoc in our group, and your engagement with diversity, equity, and inclusion - a resume/curriculum vitae - contact information for three professional references

Please send any questions to Andy Rominger ([andrew.rominger@maine.edu](mailto:andrew.rominger@maine.edu)). Review of applications will begin March 1, 2021 and continue until the position is filled.

The University of Maine is an EEO/AA employer and does not discriminate on the grounds of race, color, religion, sex, sexual orientation, transgender status, gender expression, national origin, citizenship status, age, disability, genetic information or veteran's status in employment, education, and all other programs and activities. The following person has been designated to handle inquiries regarding non-discrimination policies:

Director of Equal Opportunity 101 North Stevens Hall  
University of Maine Orono, ME 04469-5754 (207) 581-1226, TTY 711 (Maine Relay System)

Andy Rominger <[andrew.rominger@maine.edu](mailto:andrew.rominger@maine.edu)>

## UMemphis InsectBioinformatics

A 4-year postdoctoral fellowship in insect phylogenomics, comparative genomics, ecology & evolution (with a focus on bioinformatics) is available in the laboratory of Dr. Duane McKenna at the University of Memphis (<http://www.duanemckenna.com>).

**Position Summary:** The successful applicant will be primarily responsible for data analysis and wet lab work associated with a variety of comparative genomic, phylogenomic, and evolutionary studies of insects, and will work closely with Dr. McKenna and other members of the McKenna lab. All applicants with relevant background will be considered, regardless of the organism(s) previously studied. The position offers opportunities for mentoring students and for being mentored, building new collaborations, writing grants and scientific papers, and learning/developing/implementing cutting-edge analytical and laboratory methods and tools.

The position offers a competitive salary plus benefits. The initial appointment is for one year, and is renewable for at least 3 additional years, contingent upon outstanding annual performance evaluations and availability of funding. Applications must be submitted online at <https://workforum.memphis.edu/> and include a cover letter, CV, two representative publications, and contact information (not letters) for at least three professional references.

**Required Qualifications:** A Ph.D. in bioinformatics, computational biology, data science, ecology, evolution, genetics, genomics, phylogenomics, systematic biology, or similar. A strong record of scientific publication. Experience generating and analyzing various kinds of genomic/molecular data. Strong communication and interpersonal skills, including a proven ability to work both independently and as part of a team.

**The McKenna Lab:** Lab members study insect systematics, genomics, ecology, evolution and diversity. Focal areas of study include the phylogeny and evolution of beetles (order Coleoptera) and other insects, the evolution and genomic basis of plant-feeding in beetles, and interactions between insects and plants on ecological and evolutionary time scales. The lab hosts a highly-collaborative group of postdocs, PhD research associates, a research assistant professor, graduate and undergraduate students, and volunteers. We are part of a large community of biodiversity scientists

associated with the Center for Biodiversity Research ([www.umbiodiversity.org](http://www.umbiodiversity.org)) in the Department of Biological Sciences (<https://www.memphis.edu/biology/>) at the University of Memphis'Xa leading metropolitan research and teaching institution in Memphis, TN, U.S.A.

Application deadline: The position is open until filled. For more info. and to apply, visit: <http://workforum.memphis.edu/postings/25665> Contact for questions: Duane McKenna ([dmckenna@memphis.edu](mailto:dmckenna@memphis.edu))

Duane McKenna PhD William D. Hill Professor of Biology Department of Biological Sciences University of Memphis Director, Center for Biodiversity Research Director, Agriculture & Food Technologies Research Cluster, FedEx Institute email: [dmckenna@memphis.edu](mailto:dmckenna@memphis.edu) <http://duanemckenna.com> [www.umbiodiversity.org](http://www.umbiodiversity.org) "Duane McKenna ([dmckenna](mailto:dmckenna))" <[dmckenna@memphis.edu](mailto:dmckenna@memphis.edu)>

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## UMichigan EvoGenomicsLifeHistory

Postdoctoral position in avian evolutionary genomics

The lab of Dr. Ben Winger in the Department of Ecology and Evolutionary Biology and the Museum of Zoology at the University of Michigan is accepting applications for a postdoctoral scientist position in avian evolutionary genomics.

We conduct research on diverse topics related to avian evolution and evolutionary ecology. For this position, we are interested in a candidate with experience in the collection and analysis of genomic data and expertise in areas such as any of the following: genome evolution, population genetics and historical demography, landscape and spatial genetics, introgression and gene flow, and/or gene expression. The position involves opportunities to advance ongoing collaborative projects, as well as to develop new projects that leverage our current datasets and ongoing data collection. The specific focus of the project will depend somewhat on the experience and interests of the applicant, but will involve the relationship between life history (especially seasonal migration) and evolutionary processes such as gene flow, population differentiation, range expansion and molecular evolution. We are mainly using North American birds as a study system, but the research may involve other systems as well.

Critical to the success of the position will be the ability

and desire to work both independently and collaboratively with other members of the lab. Duties may involve project coordination and development, analysis of genomic data and bioinformatics, wet lab work (including preparation of genomic libraries), training of graduate and undergraduate students, and dissemination of results through manuscript writing and conference presentations.

A successful applicant will have a PhD in evolutionary biology or a related field prior to their start date, demonstrated success in publication of original research, a passion for biodiversity, expertise in one or more of the areas mentioned above, and a commitment to fostering a supportive and inclusive work environment. Knowledge of avian biology and avian diversity is desirable but not essential.

This Postdoctoral Fellowship is intended to be a two-year position, pending a successful performance review after the first year. Desired start date is by September 2021. Applicants should send a letter (< 2 pages) describing relevant experience, expertise and interests, a CV, and list of three references to Dr. Ben Winger ([wingerb@umich.edu](mailto:wingerb@umich.edu)) by February 19th, 2021.

More information on our lab and our research is at [www.wingerlab.org](http://www.wingerlab.org) and our department at <https://lsa.umich.edu/eeb> and <https://lsa.umich.edu/ummz>. Information on Postdoctoral life at UM is available at <https://rackham.umich.edu/postdoctoral-fellows/> Ben Winger <[wingerb@umich.edu](mailto:wingerb@umich.edu)>

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## UOslo PDF PhD FaunalDiversity

Postdoc and PhD position available at the Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biosciences, University of Oslo.

Both positions are associated with the project "EvoCave: Investigating 122 000 years of high-latitude faunal diversity using palaeozoology, archaeology, palaeoecology and ancient DNA" funded by the Research Council of Norway.

The EvoCave project forms a close collaboration between the CEES (University of Oslo), the University Museum of Bergen, the Department of Earth Sciences at the University of Bergen (UiB), the Norwegian University of Life Sciences (NMBU), the Centre for Palaeogenetics (Stockholm), The Arctic University Museum of Norway and the Max Planck Institute for Evolutionary

Anthropology.

Please find the full advertisements with application instructions here: <https://www.jobbnorge.no/en/available-jobs/job/199560/phd-research-fellow-in-palaeoecology-and-ancient-dna> <https://www.jobbnorge.no/en/available-jobs/job/199576/postdoctoral-research-fellow-in-quaternary-geology-and-palaeoecology> Application deadlines: 21.02.2021. Starting date PhD: 01.09.2021. Starting date postdoc: 01.06.2021 (with absolute latest start date 01.08.2021). Questions about the position can be directed to Dr. Sanne Boessenkool (sanne.boessenkool@ibv.uio.no)

Sanne Boessenkool <sanneboessenkool@gmail.com>

## UVirginia CoevolutionaryGenetics

The Department of Biology at the University of Virginia invites applicants for a post-doctoral Research Associate position in the lab of Professor Amanda Gibson as part of a 5-year NIH-funded project.

The big questions we're pursuing with this project are:

\* How do organisms adapt to rampant uncertainty? \* In what ways does context, both environmental and genetic, change the alleles that matter for fitness? \* To what extent do these genetic interactions confound our ability to map genotype to phenotype? (and can we overcome this?)

We use resistance to parasites as a model trait to get at these questions. The work will make use of the experimental tools and resources available for the model nematode *C. elegans* and its natural parasites, including experimental evolution, cryogenic preservation, high-throughput phenotyping, transgenic methods, wild isolates with whole genome sequences, and public resources for genetic mapping. You can find read more about the position and the lab at <https://coevolving.org/join-us/> <https://coevolving.org/join-us/> REQUIRED QUALIFICATIONS:

\* A PhD in Biology or a related field by the start date  
\* Excellent written and oral communication, demonstrated by a strong publication record, consistent with the candidate's career stage, and presentations at conferences  
\* Demonstrated ambition, creativity, independence, and ability to work well with others  
\* A strong background in experimental design, data analysis, and data management  
\* Interest and confidence in developing new techniques for hypothesis testing  
\* Experience

in mentoring undergraduate students and a dedication to promoting underrepresented groups in STEM

PREFERRED QUALIFICATIONS:

\* Demonstrated strengths in evolutionary genetics, host-parasite coevolution or closely allied fields  
\* Experience with analysis and interpretation of genomic data and design of mapping studies

The Biology Department at UVA (<https://bio.as.virginia.edu/><http://bio.as.virginia.edu/>) is an excellent training environment for curious, highly motivated scientists. The successful applicant can expect to interact frequently with the department's strong, collegial group of evolutionary ecologists and geneticists (<https://www.eebvirginia.org/><https://www.eebvirginia.org/>). In joining the lab, new members sign on to our commitment to promoting an inclusive and safe environment, supporting all the members of our team in realizing their full potential, and actively valuing the creativity and productivity that comes from the meeting of diverse minds.

APPLICATION PROCEDURE: Apply online at [https://uva.wd1.myworkdayjobs.com/en-US/-UVAJobs/job/Charlottesville-VA/Research-Associate-in-Biology\\_R0021083](https://uva.wd1.myworkdayjobs.com/en-US/-UVAJobs/job/Charlottesville-VA/Research-Associate-in-Biology_R0021083) and attach a cover letter, curriculum vitae, 2-3 writing samples (preferably first-author publications, published or in prep), and contact information for three individuals who can provide professional reference letters. In the cover letter, please address your fit with the qualifications above and your experience in mentoring undergraduates. Applications by members of underrepresented groups are strongly encouraged. Please note that multiple documents can be uploaded in the box.

APPLICATION DEADLINE: Review of applications will begin on February 10, 2021. The University will perform background checks on all new hires prior to employment.

This is a one-year appointment; however, appointment may be renewed for an additional two, one-year increments, contingent upon available funding and satisfactory performance.

Interested applicants are invited to email Amanda Gibson, Assistant Professor, at [amandakgibson@virginia.edu](mailto:amandakgibson@virginia.edu) to discuss the position.

For questions about the application process, please contact Richard Haverstrom, Faculty Search Advisor, at [rkh6j@virginia.edu](mailto:rkh6j@virginia.edu).

For information on the benefits available to postdoctoral associates at UVA, visit [postdoc.virginia.edu](http://postdoc.virginia.edu) and [hr.virginia.edu/benefits](http://hr.virginia.edu/benefits).

The University of Virginia, including the UVA Health System which represents the UVA Medical Center, Schools of Medicine and Nursing, UVA Physician's Group and the Claude Moore Health Sciences Library, are fundamentally committed to the diversity of our faculty and staff. We believe diversity is excellence expressing itself through every person's perspectives and lived experiences. We are equal opportunity and affirmative action employers. All qualified applicants will receive consideration for employment without regard to age, color, disability,

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

Applications should include a motivation letter (max. 2 pages), CV, publication list, and names and contact details of at least two referees in a single pdf. Evaluation of the applications will begin immediately and continue until the position is filled, with a desired starting date as early as possible.

To apply or for enquiries regarding the position and research topic, please contact Anne Kupczok: [anne.kupczok@wur.nl](mailto:anne.kupczok@wur.nl)

<http://www.wur.nl/en/Expertise-Services/Chair-groups/Plant-Sciences/Bioinformatics.htm> <https://-annecmg.github.io/> Dr. Anne Kupczok Assistant Professor Bioinformatics, Department of Plant Sciences, Wageningen University

“Kupczok, Anne” <[anne.kupczok@wur.nl](mailto:anne.kupczok@wur.nl)>

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## Wageningen Kiel Bioinformatics

The Evolutionary (Meta-)genomics group in the Bioinformatics Group at Wageningen University invites applications for a postdoc position. The position is for one year with the possibility for extension depending on funding.

We are interested in the evolution and function of CRISPR associated (Cas) genes in archaea. CRISPR-Cas is the adaptive immune system of bacteria and archaea and, in addition, some cas genes occur outside of CRISPR-Cas loci, where they are potentially involved in functions beyond defense. For example, casposons are mobile genetic elements encoding Cas1. We are interested in detecting such non-canonical cas genes in archaea, predicting their function, and studying their evolution. We offer the opportunity to develop the focus of the project with respect to own research interests.

Candidate qualification and competences: PhD in bioinformatics or a related field; excellent background in high-throughput sequencing analysis and comparative genomics; interest in close collaborations with experimental biologists; high self-motivation; excellent English language skills; ideally background in microbial genomics, evolution, and mobile elements.

The position is based at Kiel University and the project will be led by Dr. Anne Kupczok (Wageningen University, Netherlands) in collaboration with Prof. Ruth Schmitz-Streit (Kiel University, Germany). The project can be carried out at either place or also remotely.

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## WashingtonU ComputationalPhylogenetics

Project

We are hiring for a NSF-funded postdoctoral research position. The researcher will join the lab of Dr. Michael Landis, located on the Danforth Campus in the Department of Biology at Washington University in St. Louis (WUSTL). The Landis Lab studies problems in phylogenetics, biogeography, and trait evolution by designing statistical models, developing inference methods as software, and analyzing biodiversity data.

The postdoctoral researcher will develop inference methods for modeling historical biogeography, lineage diversification, and paleogeographical dynamics in the Bayesian phylogenetic modeling framework, RevBayes ([revbayes.com](http://revbayes.com)). The research will advance how evolutionary biologists model and understand the relationships between speciation, extinction, molecular evolution, biogeography, and time-varying geographical barriers. The postdoc will have opportunities to mentor graduate and undergraduate researchers, to teach at computational biogeography workshops, publish first-author articles, and present at major conferences.

The postdoctoral research will interact regularly with other project team members, including Dr. Felipe Zapata (University of California, Los Angeles), Dr. Nina Rønsted (National Tropical Botanical Garden, Hawaii), Dr. Warren Wagner (Smithsonian Natural History Museum), Dr. Bruce Baldwin (UC Berkeley), and Dr. Will Freyman (23andMe). The team will also recruit a sec-

and postdoctoral researcher to be hired by and based at UCLA who will collect plants and perform phylogenomic analyses to study the systematics, biogeography, and ecology of one dozen largely unsequenced clades of Hawaiian endemic plants. A third postdoctoral position based at NTBG in Hawaii focused on plant systematics of a selection of the twelve lineages will be advertised later.

#### Qualifications

Candidates must hold a PhD in biology, bioinformatics, computer science, statistics, or a related field, and have a track-record of publishing research for biological methods. Applicants must be able to demonstrate their experience developing models and methods for phylogenetics and/or population genetics. The researcher will develop within the phylogenetics modeling software, RevBayes (revbayes.com), and collaborate with an international team of researchers and developers. Programming experience is necessary, with preference for C/C++/Java over Python/R. Experience with biogeographical methods is an advantage but not required.

#### Employment

The position is full-time (~37.5 hrs/wk) and is funded for three years, with a salary following the NIH Salary Guidelines. Intended starting date is May 1st, 2021, subject to Covid-19 restrictions and potential visa requirements. The candidate must hold a PhD degree at the start date of the position. WashU offers outstanding benefits, including health, dental, vision, and life insurance (<https://hr.wustl.edu/benefits/postdoctoral/>). St. Louis itself is both an exciting and family-friendly city, with affordable housing and excellent access to food, music, art, and public spaces.

#### Application

Application review will begin on Feb 1st, 2021, and continue until a candidate is hired.

Visit <https://jobs.wustl.edu> and enter job ID 50059 or visit <https://bit.ly/3hJnoiJ> to apply for this position.

The application will require you to submit (i) your current CV, (ii) a 1-2 page cover letter that briefly states your research interests, previous research experience and accomplishments, and your fit for this position, (iii) two relevant research papers (preprints, submitted, published, etc.) that you authored, (iv) links to any examples of code you wrote (e.g. GitHub), and (v) contact information for two potential references.

WUSTL is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, age, sex, sexual orientation, gender identity or expression, national ori-

gin, genetic information, disability, or protected veteran status.

#### Contact

Please feel welcome to email [michael.landis@wustl.edu](mailto:michael.landis@wustl.edu) with any questions regarding this posting. Learn more about the research group at [landislab.org](http://landislab.org).

Michael Landis <[michael.landis@wustl.edu](mailto:michael.landis@wustl.edu)>

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## WSL Birmensdorf Switzerland EcologicalGenomics

In the frame of the BiodivERsA project ACORN, the Research Group Ecological Genetics is searching for 2 years (with option of extension), starting April 1, 2021, a highly motivated (f/m/d)

#### Post-Doc in Ecological Genomics (80%)

You plan and perform samplings of plant material for DNA extraction and seeds in natural populations of three white oak species in Switzerland. You establish and maintain a large common garden experiment with juvenile plants. You genotypically and phenotypically characterize the seedlings and perform genotype?phenotype associations to elucidate the genomic basis of fitness-relevant traits. In collaboration with the European project partners, you publish the results in international scientific journals and present them at dedicated conferences. Your applied findings will be transferred to the practitioners via dedicated forestry media. You have acquired a PhD in biology, forest or environmental sciences, with a strong background in ecological genetics and evolutionary biology as well as competence in bioinformatics. You should be acquainted with the combined statistical analysis of phenotypic and genomic data. You have experience with experimental work and you like to work in the field. You are ambitious to communicate and collaborate in fluent English with an international consortium and are used to a high standard of independence. Furthermore, you have a well-structured and careful working attitude and you demonstrate a high level of team spirit.

Please send your complete application to Michèle Bucher, Human Resources WSL, by uploading the requested documents through our webpage. Applications via email will not be considered. Christian Rellstab, phone +41 (0)44 739 25 42 or [christian.rellstab@wsl.ch](mailto:christian.rellstab@wsl.ch), will be happy to answer any questions or offer further information. The WSL strives to increase the proportion of

women in its employment, which is why qualified women are particularly called upon to apply for this position.

The Swiss Federal Institute for Forest, Snow and Landscape Research WSL is part of the ETH Domain. Approximately 600 people work on the sustainable use and protection of the environment and on the handling of natural hazards. The Research Unit Biodiversity and Conservation Biology studies the diversity of life in its various forms, from genetic diversity to the diversity of species and ecosystems as well as their interactions.

Dr. Christian Rellstab

Senior Researcher Associate Editor of Tree Genetics & Genomes

Biodiversity and Conservation Biology Ecological Genetics Swiss Federal Institute WSL Zürcherstrasse 111 8903 Birmensdorf Switzerland

Room: Bi MG C 39 Phone WSL: +41 44 739 2542 Phone mobile: +41 79 256 44 06 Phone home office: +41 43 536 67 15 E-mail: christian.rellstab@wsl.ch <https://www.wsl.ch/en/employees/rellstab.html> Office days: tuesday - friday

christian.rellstab@wsl.ch

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## Workshops Courses

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### Online Biodiversity Mar15-19

ONLINE COURSE 'V

Functional ecology from organism to ecosystem: theory and computation (FEER02) This course will be delivered live

<https://www.prstatistics.com/course/functional-ecology-from-organism-to-ecosystem-theory-and-computation-feer02/> 15 March 2021 - 19 March 2021

This is a 'ÄYLIVE COURSE'Ä 'V the instructor will

be delivering lectures and coaching attendees through the accompanying computer practical'Äs via video link, a good internet connection is essential.

TIME ZONE 'V Central European Time (CET) 'V however all sessions will be recorded and made available allowing attendees from different time zones to follow a day behind with an additional 1/2 days support after the official course finish date (please email olivierhooker@prstatistics.com for full details or to discuss how we can accommodate you).

Course Overview:

The course will describe different aspects and methods in the field of functional ecology, combining theoretical lessons with hands-on real data. Lectures will provide the theoretical and mathematical basis for different ap-

plications of functional traits at organismal, community and ecosystem levels, with examples across different trophic levels. This will serve as a basis for exploring the practical tools to connect the effect of land-use and climate change on biodiversity to the effect of biodiversity on to multiple ecosystem functions and ecological services. An overview of existing computational methods, including recent developments authored by the lecturers, will be provided during the course and the students will learn how to apply them using functions and scripts run in R. Students are welcome to apply these tools to their own data, or use the data provided, to be analysed during the course while benefiting from advice by the lecturers. As such, compared to other courses given by the lectures, this is a slightly a more advanced and data oriented course which concentrates on detailed and practical aspects in functional traits related applications, especially computational ones. The aim of the course is to provide participants with a handy synthesis of existing concepts, tools and trends in functional ecology and guide them to apply these tools to their own field of interest. As the field of functional ecology is rapidly expanding, participants will be ready to exploit the potential of the main trait approaches.

#### Upcoming courses

Model-based multivariate analysis of abundance data using R (MBMV03) 1 February 2021 - 12 February 2021 <https://www.prstatistics.com/course/model-based-multivariate-analysis-of-abundance-data-using-r-mbm03/> Making beautiful and effective maps in R (MAPR02) 17 February 2021 - 18 February 2021 <https://www.prstatistics.com/course/making-beautiful-and-effective-maps-in-r-mapr02/> Stable Isotope Mixing Models using SIBER, SIAR, MixSIAR (SIMM07) 22 February 2021 - 25 February 2021 <https://www.prstatistics.com/course/stable-isotope-mixing-models-using-r-simm07/> Introduction to statistics using R and Rstudio (IRRS03) 24 February 2021 - 25 February 2021 <https://www.prstatistics.com/course/introduction-to-statistics-using-r-and-rstudio-irrs03/> Introduction to generalised linear models using R and Rstudio (IGLM03) 3 March 2021 - 4 March 2021 <https://www.prstatistics.com/course/introduction-to-generalised-linear-models-using-r-and-rstudio-iglm03/> Species distribution modelling with Bayesian statistics in R (SDMB02) 8 March 2021 - 12 March 2021 <https://www.prstatistics.com/course/species-distribution-modelling-with-bayesian-statistics-in-r-sdmb02/> Introduction to mixed models using R and Rstudio (IMMR04) 10 March 2021 - 11 March 2021 <https://www.prstatistics.com/course/introduction-to-mixed-models-using-r-and-rstudio-immr04/> Landscape genetic data analysis using R (LNDG04) 15 March

2021 - 19 March 2021 <https://www.prstatistics.com/course/landscape-genetic-data-analysis-using-r-lndg04/>

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## Online BiologyIntegrationInst May18-19

Andrea Brennan, PhD | Project Coordinator, Biology Integration Institute Design

The Morton Arboretum | 4100 Illinois Route 53 | Lisle, Illinois 60532 765-427-7419 | [abrennan@mortonarb.org](mailto:abrennan@mortonarb.org) | [mortonarb.org](http://mortonarb.org)

The Center for Tree Science (CTS) at The Morton Arboretum is a hub for independent and innovative research centered on trees and the role they play in globally diverse environments. In September 2020, we were awarded funding from the National Science Foundation to design a Biology Integration Institute (BII) with the intent of submitting a proposal in January 2022. To broaden our network and facilitate new collaborations and transformative research, we are soliciting potential collaborators for a workshop to design a Biology Integration Institute focused on the theme of Terrestrial Responses to Emerging Environments through Time, Integrated from Moments to Eons (TREETIME).

Workshop participants will take part in periodic asynchronous activities this spring to refine the theme of the proposed BII, culminating in a 2-day workshop on May 18th (Tuesday) and 19th (Wednesday) in which we will build team cohesion, finalize the scope of the BII, and develop research projects and hypotheses. Further information and details regarding the workshop and design of the BII at the The Morton Arboretum are available on the attached document as well as here. Additionally, on January 19, 1:00-2:00 PM (Central Time), we will be holding a live, virtual Q&A session that you can join to learn additional information (details forthcoming). You may register for the event here. You may also reach out to any of us (contact information included below) for further information.

As an independent, nonprofit organization, The Morton Arboretum has a responsibility to serve the public good.



This responsibility is best informed by including diverse perspectives at all levels, including the design, execution, and application of our scientific research. Interested collaborators must share this commitment and positively contribute to advancing inclusion, diversity, equity, and accessibility.

If you are interested in applying to participate in the TREETIME BII research development workshop, please complete the application here. If preferred, you can instead copy and paste the following URL into your browser: <https://tinyurl.com/y6nnn66d> Applications will be evaluated on an ongoing basis to generate a diverse and cohesive group. We anticipate a first round of invitations in late January with a finalized list of participants by the end of February. We encourage you to share this information on TREETIME and our workshop application with any interested individuals or groups.

We are excited about the possibility of collaborating on TREETIME!

Sincerely,

Andrea Brennan, PhD Project Coordinator, BII Design  
The Morton Arboretum [abrennan@mortonarb.org](mailto:abrennan@mortonarb.org)

Chuck Cannon, PhD Director, Center for Tree Science  
The Morton Arboretum [ccannon@mortonarb.org](mailto:ccannon@mortonarb.org)

Luke McCormack, PhD Tree Root Biologist & BII Research Subgroup Leader  
The Morton Arboretum [lmccormack@mortonarb.org](mailto:lmccormack@mortonarb.org)

Christy Rollinson, PhD Forest Ecologist & BII Research Subgroup Leader  
The Morton Arboretum [crollinson@mortonarb.org](mailto:crollinson@mortonarb.org)

Andrea Brennan <[abrennan@mortonarb.org](mailto:abrennan@mortonarb.org)>

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## Online EnvironmentalMetagenomics Apr19-23

Dear all,

registrations are now open for the Physalia course on Environmental Metagenomics, which will take place ONLINE from the 19th to the 23rd of April: <https://www.physalia-courses.org/courses-workshops/-environmental-metagenomics/> Instructors: Dr. Antti Karkman and Dr. Igor S Pessi (University of Helsinki, Finland).

During this one week course you will learn state-of-the-

art bioinformatic approaches to analyse metagenomic data. We will cover both read- and assembly-based methods, focusing on the strenght of each of these methods depending on the research question. We will use data from both short- (e.g. Illumina) and long-read (e.g. Nanopore) sequencing platforms, as it improves dramatically metagenome-assembled genomes (MAG) assembling and binning compared to short-read-only methods.

Learning Outcomes

By completing this course, you will:

- Understand the basics of metagenomic sequencing and bioinformatic approaches to the analysis of metagenomic data
- Be able to plan and execute a metagenomic sequencing project
- Have an up-to-date knowledge on the bioinformatic tools and best practices for the analysis of metagenomes
- Be able to choose the right tools and approaches to answer your specific research question
- Have confidence to learn new methods needed to answer your research question

Program: <https://www.physalia-courses.org/courses-workshops/course55/curriculum55/> The full list of our online courses can be found here: ( <https://www.physalia-courses.org/courses-workshops/> )

All the best,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR [info@physalia-courses.org](mailto:info@physalia-courses.org) ( <http://www.physalia-courses.org/> ) Twitter: @physacourses mobile: +49 17645230846 ( <https://groups.google.com/forum/#!forum/physalia-courses> )

"[info@physalia-courses.org](mailto:info@physalia-courses.org)"

<[info@physalia-courses.org](mailto:info@physalia-courses.org)>

[info@physalia-courses.org](mailto:info@physalia-courses.org)

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## Online GenomeAssemblyNanopore Feb22-26

Dear all,

we have last places available on the 2nd edition of the course "GENOME ASSEMBLY USING OXFORD NANOPORE SEQUENCING", which will be delivered remotely in February, 22nd-26th.

Course website: ( <https://www.physalia-courses.org/courses-workshops/course59/> )

This course will introduce the audience with a spectre of methods which are present in a usual assembly workflow, starting from raw data and finishing with a fully assembled genome. We will see how to obtain nucleotide sequences from raw signals, dive deeper into the most used assembly paradigm for long fragments, try out and compare several state-of-the-art assemblers, and at last, assess the quality of the obtained assembly with and without a reference genome.

This course is intended for researchers interested in learning the concepts of algorithms for de novo genome assembly with Oxford Nanopore Technologies data.

Here is the full list of our courses and Workshops: ( <https://www.physalia-courses.org/courses-workshops/> )

Should you have any questions, please feel free to contact us: [info@physalia-courses.org](mailto:info@physalia-courses.org)

Best regards,

Carlo

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"[info@physalia-courses.org](mailto:info@physalia-courses.org)" <[info@physalia-courses.org](mailto:info@physalia-courses.org)>

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## Online Geometric Morphometrics Apr12-16

Dear all,

registrations are now open for the 4th edition of the Geometric Morphometrics course with Dr. Carmelo Fruciano (CNR, Italy).

Dates and time: ONLINE, 12-16 April (1-8 pm Berlin time).

This course covers the main common practices of modern geometric morphometrics, including: acquiring data, analysing it, visualizing and interpreting the results.

This course is aimed at beginners and intermediate users. In other words, it is aimed at researchers who intend to use geometric morphometrics or who have started performing geometric morphometric analyses but feel they need a more structured background.

Course website: ( <https://www.physalia-courses.org/courses-workshops/course22/> )

The full list of our online courses can be found here: ( <https://www.physalia-courses.org/courses-workshops/> )

Should you have any questions, please feel free to contact us at: [info@physalia-courses.org](mailto:info@physalia-courses.org)

Best regards,

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## Online Landscape Genetic Data Analysis Using R Mar15-19

ONLINE COURSE 'V Landscape genetic data analysis using R (LNDG04) This course will be delivered live

<https://www.prstatistics.com/course/landscape-genetic-data-analysis-using-r-lndg04/> 15 March 2021 - 19 March 2021

This is a 'LIVE COURSE' 'V the instructor will be delivering lectures and coaching attendees through the accompanying computer practical' 's via video link, a good internet connection is essential.

TIME ZONE 'V Eastern Standard Time 'V however all sessions will be recorded and made available allowing attendees from different time zones to follow a day behind with an additional 1/2 days support after the official course finish date (please email [oliverhooker@prstatistics.com](mailto:oliverhooker@prstatistics.com) for full details or to discuss how we can accommodate you).

Course Overview: The term 'landscape genetics' 'A has been applied studies that integrate ecological context and intervening landscape into population genetic analyses of contemporary processes such as gene flow and migration. This course will cover the basics of both quantitative landscape ecology and population genetics, focusing on how we develop and evaluate spatial/genetic analyses using the R platform.

Upcoming courses

Model-based multivariate analysis of abundance data using R (MBMV03) 1 February 2021 - 12 February

2021 <https://www.prstatistics.com/course/model-based-multivariate-analysis-of-abundance-data-using-r-mbm03/> Making beautiful and effective maps in R (MAPR02) 17 February 2021 - 18 February 2021 <https://www.prstatistics.com/course/making-beautiful-and-effective-maps-in-r-mapr02/> Stable Isotope Mixing Models using SIBER, SIAR, MixSIAR (SIMM07) 22 February 2021 - 25 February 2021 <https://www.prstatistics.com/course/stable-isotope-mixing-models-using-r-simm07/> Introduction to statistics using R and Rstudio (IRRS03) 24 February 2021 - 25 February 2021 <https://www.prstatistics.com/course/introduction-to-statistics-using-r-and-rstudio-irrs03/>

Introduction to generalised linear models using R and Rstudio (IGLM03) 3 March 2021 - 4 March 2021 <https://www.prstatistics.com/course/introduction-to-generalised-linear-models-using-r-and-rstudio-iglm03/>

Species distribution modelling with Bayesian statistics in R (SDMB02) 8 March 2021 - 12 March 2021 <https://www.prstatistics.com/course/species-distribution-modelling-with-bayesian-statistics-in-r-sdmb02/> Introduction to mixed models using R and Rstudio (IMMR04) 10 March 2021 - 11 March 2021 <https://www.prstatistics.com/course/introduction-to-mixed-models-using-r-and-rstudio-immr04/> Landscape genetic data analysis using R (LNDG04) 15 March 2021 - 19 March 2021 <https://www.prstatistics.com/course/landscape-genetic-data-analysis-using-r-lndg04/> Data visualization using GG plot 2 (R and Rstudio) (DVGG02) <https://www.prstatistics.com/course/data-visualization-using-gg-plot-2-r-and-rstudio-dvvg02/> 17 March 2021 - 18 March 2021

Functional ecology from organism to ecosystem: theory and computation (FEER02) 22 March 2021 - 26 March 2021 <https://www.prstatistics.com/course/functional-ecology-from-organism-to-ecosystem-theory-and-computation-feer02/> Model selection and model simplification (MSMS01) 24 March 2021 - 25 March 2021 <https://www.prstatistics.com/course/model-selection-and-model-simplification-msms01/> Data wrangling using R and Rstudio (DWRS02) 31 March 2021 - 1 April 2021 <https://www.prstatistics.com/course/data-wrangling-using-r-and-rstudio-dwrs02/> Introduction to Python and Programming in Python (PYIN02) 7 April 2021 - 8 April 2021

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

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## Online Metabarcoding Mar1-28

Hello,

The University of Guelph has an upcoming continuing education course in Metabarcoding running online this winter.

Metabarcoding March 1 'V 28, 2021 Online Instructor: Dr. Dirk Steinke

Thank you, Meghan

Meghan Clark | Manager, Marketing, Communications and Enrolment OpenEd | University of Guelph Rm 145 Johnston Hall | 50 Stone Rd E | Guelph, ON | N1G 2W1 519-824-4120 Ext. 53755 | [mclark35@uoguelph.ca](mailto:mclark35@uoguelph.ca) OpenEd.uoguelph.ca

Meghan Clark <[mclark35@uoguelph.ca](mailto:mclark35@uoguelph.ca)>

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## Online RADSeq Feb8-11

The University of Connecticut's Computational Biology Core is offering a workshop on assaying genetic variation using restriction site associated DNA sequencing, or RAD-Seq.

The workshop will cover basic concepts and walk through a complete analysis on a high performance computing cluster. The analysis will start with raw reads and go through some very basic analyses of population genetic structure. The core learning goal is to familiarize attendees with the steps necessary to analyze RAD-seq data, the tools available, common data formats, and possible pitfalls they may encounter.

We'll analyze several hundred samples collected for a landscape genetic study of arctic grayling, a freshwater fish, using the ddRAD method (Peterson et al. 2012). All code required to complete the full analysis will be provided in a public github repository. Session recordings will be made available to all participants in the afternoon after each session and will be accessible for several months following the workshop.

The workshop will take place over 4 days for three hours each day.

Dates: February 8-11 (4 days)

Time: Feb8: 8:30am - 12pm, Feb9-11: 9.00am - 12.00pm

Location: Online

Cost: \$300

Workshop schedule:

Day 1: Introduction to Linux/HPC

Day 2: Introduction to RADSeq, high throughput sequencing data, quality control, read mapping

Day 3: Reference-based and de novo variant discovery approaches.

Day 4: Manipulating, filtering, reformatting output files. Basic population genomic analyses.

Registration

To register, please follow this link: <https://forms.gle/-Khsxm54tmC8jeG7Y6> Workshop FAQ

Who should attend?

Anyone who wants to learn the fundamentals of RAD-seq analysis.

What are the prerequisites?

Prior bioinformatic experience is not required. We have dedicated the first day of the workshop to the basics of Linux and high performance computing.

What do I need?

You will need your own laptop to use, have a recent version of R, RStudio installed, and some other applications. We will send you details of software and installation instructions with your registration acknowledgement email.

Can I bring my own data?

We will provide an experimental dataset for use during the workshop, as this helps to keep the workshop moving. There will be time, however, to discuss your own datasets and how you might work with them outside of the workshop.

How much does it cost?

The registration fee is \$300.

How do I pay?

The fee is due at the time of registration. UConn affiliates can use KFS accounts. The only other means of payment we currently accept is credit card. Due to some complications we cannot accept international wire transfers at this time.

Where is the workshop?

It will be held on Blackboard-Collaborate platform, and

will run from 9:00am to 12:00pm on the dates indicated.

How do I apply?

All registration is “first-come, first-served.” There is no application process. Sign up as soon as possible to ensure your place in the workshop.

Questions?

If you have any questions, please don’t hesitate to contact us at [cbcsupport@uconn.edu](mailto:cbcsupport@uconn.edu) or visit our website at <https://bioinformatics.uconn.edu/> “Reid, Noah” <[noah.reid@uconn.edu](mailto:noah.reid@uconn.edu)>

## Online UnixForBioinform Apr26-30

Dear all,

applications are now open for our course “Unix and shell scripting for bioinformatics”, which will be delivered remotely on April, 26th-30th.

Course website: <https://www.physalia-courses.org/-courses-workshops/unix/> In this course, students will be introduced to the most powerful Unix commands and they will learn how to connect to external resources/servers, install specialist tools and ultimately to combine commands into scripts for automation and reproducibility. Hands-on sessions will focus on applying those tools to process biological data, explicitly next-generation sequencing (NGS) data.

This course assumes no prior knowledge of Unix and shell scripting. Since most examples will be focused on biological data, some background in biology is desired.

Learning outcomes:

1) Mastering most popular Unix commands 2) Creating and editing files using the command line 3) Processing large files using Unix and bash scripting 4) Automating bioinformatics pipelines by writing shell scripts 5) Managing system tasks and resources usage

Here is the full list of our courses and Workshops: (<https://www.physalia-courses.org/courses-workshops/>)

Should you have any questions, please feel free to contact us: [info@physalia-courses.org](mailto:info@physalia-courses.org)

Best regards,

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## UMichigan EvolDiversity May3-6

NextProf Science workshop

We wish to invite interested evolutionary biologists, ecologists, and organismal biologists to the NextProf Science workshop at the University of Michigan.

NextProf Science(Virtual) Future Faculty Workshop

The University of Michigan will offer a NextProf Science workshop, May 3-May 6, 2021. The workshop is

aimed at encouraging talented scientists and mathematicians with a demonstrated commitment to diversity to consider academia as a career.

This year the workshop will be virtual but there will be many opportunities to interact with faculty and other participants and have your questions answered!

Participants will develop strategies to prepare them to pursue academic careers. The workshop is targeted at scholars ready to take the next stepâ euro “post-doctoral fellows and very advanced doctoral students. Underrepresented minorities and women are especially encouraged to apply.

Deadline for submission of the application and reference letter is January 25, 2021.

Learn more at: <https://sites.lsa.umich.edu/nextprof-science> U-M EEB NextProf Organizing Committee (Tom Duda & Andre Green)

”tfduda@umich.edu“ <tfduda@umich.edu>

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## Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from ‘blackballed’ addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly 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](mailto:evoldir@evol.biology.McMaster.CA). Do not include encoded attachments and do not send it as Word files, as HTML files, as L<sup>A</sup>T<sub>E</sub>X files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category “Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:” and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formatted) the message will be 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<sup>A</sup>T<sub>E</sub>X do not try to embed L<sup>A</sup>T<sub>E</sub>X or T<sub>E</sub>X in your message (or other formats) since my program will strip these from the message.