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# E v o l D i r

March 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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### Online Biodiversity Mar15-31

Subject: Free of Charge???The 1st International Electronic Conference on Biological Diversity, Ecology, and Evolution???Final Reminder

Dear scientists, researchers, and authors,

We trust this email finds you well. We would like to invite you to participate in the online conference, 1st International Electronic Conference on Biological Diversity, Ecology, and Evolution (BDEE 2021), chaired by Prof. Dr. Michael Wink, which will be held on 15 to 31 March 2021. If you are interested, please submit your abstract (in English) online by the abstract submission deadline of 15 February 2021 <https://bdee2021.sciforum.net/>. Conference Schedule:

Abstract Submission Deadline: 15 February 2021; online in the section "Conference Calls" (<https://bdee2021.sciforum.net/>) Notification of Acceptance: 20 February 2021 Full Conference Paper Submission Deadline: 1 March 2021 Conference Open: 15 to 31 March 2021

This conference aims to provide leading scientists focusing on the science of biodiversity with a robust and

common platform through which to share and discuss the latest research and to promote the advancement of this exciting and rapidly changing field. We hope to encourage discovery across the discipline as we cover the following 11 broad themes in Sessions 1-11, as listed below:

Session 1: Marine diversity Session 2: Animal diversity  
 Session 3: Plant diversity Session 4: Microbial diversity and culture collections  
 Session 5: Chemical biodiversity and chemical ecology  
 Session 6: Biodiversity conservation  
 Session 7: Biogeography and macroecology  
 Session 8: Phylogeny and evolution  
 Session 9: Biodiversity loss and dynamics  
 Session 10: Mesophotic ecosystems diversity  
 Session 11: Invasive species and diversity

We are delighted to invite the global community of scholars to join BDEE 2021 to present their latest research and share novel ideas on the multidisciplinary aspects of research and development in the science and technology of biodiversity, and any topics related to diversity. Thanks to the flexibility of our innovative electronic platform, the conference will be completely free of charge both to attend and for scholars to upload and present their latest work on the conference platform. We are also considering arranging a Special Issue for selected conference papers in our journal Diversity (ISSN 1424-2818). In this case, papers published in the Special Issue would receive a 20% discount on the article processing charge.

During the conference period, you will be able to upload papers, posters, and presentations (including videos), as well as comment on other presentations and engage with fellow scholars in real time. In this way, the conference offers a novel opportunity to exchange opinions and views within the scholarly community and to discuss the papers and latest research in a discussion forum.

We hope that you will be able to join this exciting event, which is organized and sponsored by MDPI, a scholarly open access publisher.

#### Paper Submission Guidelines

For information about the procedure for submission, peer review, revision, and acceptance of conference proceedings papers, please refer to the Instructions for Authors at <https://bdee2021.sciforum.net/>. We look forward to receiving your research papers and welcoming you to this 1st International Electronic Conference on Biological Diversity, Ecology, and Evolution (BDEE 2021).

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

Kind regards,

Prof. Dr. Michael Wink BDEE 2021 Conference Chair  
Conference Secretariat Ms. Emma Li Ms. Eve Yang  
Email: [bdee@mdpi.com](mailto:bdee@mdpi.com)

Emma Li <[emma.li@mdpi.com](mailto:emma.li@mdpi.com)>

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## Online EcuadorHerbariumTour Mar11-12

Dear all,

The recently created herbarium UTCEC at Universidad Técnica de Cotopaxi, in collaboration with Universidad Regional Amazónica Ikiam (both in Ecuador) and with the endorsement of the Society for Herbarium Curators (SHC), International Association for Plant Taxonomy (IAPT), Asociación Latinoamericana de Botánica (ALB), and Asociación Botánica Ecuatoriana (ABE), are organizing a two-day virtual seminar titled “Herbaria and their treasures/Herbarios y sus tesores/Herbários e seus tesouros.”

Everyone is welcome and your help sharing this announcement is greatly appreciated.

This event will happen on the 11-12 March 2021, from 09:00-14:00 hours (Ecuador Time) and the details are

below:

Zoom Meeting No: 953 2831

Password: 607090 Registration: <https://forms.gle/Fz6GQFufkEgtc17S7> Contact information: Alina Freire-Fierro ([alina.freire@ikiam.edu.ec](mailto:alina.freire@ikiam.edu.ec)) and Javier Irazábal ([roberto.irazabal@utc.edu.ec](mailto:roberto.irazabal@utc.edu.ec))

Program: Thursday/Jueves/Quinta Feira  
March/Marzo/Março 11, 2021

Opening/Inauguración, 09:00-09:30 (Ecuador Time), 14:00-14:30 (GTM) Javier Irazábal M.S., Tesoros del herbario UTCEC (Latacunga, Ecuador), 09:30-10:00 (Ecuador Time), 14:30-15:00 (GTM) Alina Freire-Fierro, Ph.D. et al., Tesoros de los herbarios Ecuatorianos (Latacunga/Tena, Ecuador), 10:00-10:30 (Ecuador Time), 15:00-15:30 (GTM) Break, 10:30-11:00 (Ecuador Time), 15:30-16:00 (GTM) Barbara Thiers, Ph.D., Treasures from the Herbarium NY (New York, USA), 11:00-11:30 (Ecuador Time), 16:00-16:30 (GTM) Muthama Muasya, Ph.D., Treasures from the Herbarium BOL (Cape Town, South Africa), 11:30-12:00 (Ecuador Time), 16:30-17:00 (GTM) Yao-Wu Xing, Ph.D., Treasures from the Herbarium XTBG (Xishuangbanna, China), 12:00-12:30 (Ecuador Time), 17:00-17:30 (GTM)

Q/A-Preguntas/Respuestas, 12:30-13:30 (Ecuador Time), 17:30-18:30 (GTM)

Friday/Viernes/Sexta Feira, March/Marzo/Março 12th, 2021

Bente B. KlitgÅrd, Ph.D., Treasures from the Herbarium K (Kew, United Kingdom), 09:00-09:30 (Ecuador Time), 14:00-14:30 (GTM)

Brendan Lepschi, Ph.D., Treasures from the Herbarium CANB (Canberra, Australia), 09:30-10:00 (Ecuador Time), 14:30-15:00 (GTM)

Gerardo Salazar Chávez, Ph.D., Tesoros del Herbario MEXU (México, México), 10:00-10:30 (Ecuador Time), 15:00-15:30 (GTM)

Break, 10:30-11:00 (Ecuador Time), 15:30-16:00 (GTM)

Banessa Falcón Hidalgo, Ph.D.(c.) and Rosa Rankin, Ph.D., Tesoros del Herbario HAJB (La Habana, Cuba), 11:00-11:30 (Ecuador Time), 16:00-16:30 (GTM)

Maria Candida Mamede, Ph.D., Tesouros do Herbário SP (São Paulo, Brazil), 11:30-12:00 (Ecuador Time), 16:30-17:00 (GTM)

Q/A-Preguntas/Respuestas, 12:00-13:00 (Ecuador Time), 17:00-18:00 (GTM) Closing/Clausura, 13:00-13:30 (Ecuador Time), 18:00-18:30 (GTM) Virtual networking, 13:30-14:30 (Ecuador Time), 18:30-19:30 (GTM)

Lic. M.em C., Alina Freire-Fierro, M.S., Ph.D. Profesora Titular de Botánica Agregado 3, Universidad Regional Amazónica Ikiam Curadora Asociada del Herbario UTCEC, Universidad Técnica de Cotopaxi Alina.freire@ikiam.edu.ec, Alina.freire@utc.edu.ec

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alina.freire@ikiam.edu.ec

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>

## Online EvolutionEcol Feb10

Dear EvolDir,

Join us for the new year of our popular online seminar series in Evolution and Ecology. Our first talk of 2021 will take place this Wednesday, details below.

Wed 10 Feb

Prof. Gerald Carter

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

“Cooperative relationships: insights from manipulating social networks in vampire bats”

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-xl54980/-shared\\_invite/zt-ev4fe0io-M7B~D6p74blV\\_ZRcDtmAcg](https://join.slack.com/t/evolutionecol-xl54980/-shared_invite/zt-ev4fe0io-M7B~D6p74blV_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

## Online EvolutionEcol Feb17

Dear EvolDir,

Join us for the new year of our popular, weekly, online seminar series in Evolution and Ecology.

Wed 17 Feb

Prof. Walter Salzburger

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

“The dynamics of adaptive radiation in African cichlid fishes”

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-xl54980/-shared\\_invite/zt-ev4fe0io-M7B~D6p74blV\\_ZRcDtmAcg](https://join.slack.com/t/evolutionecol-xl54980/-shared_invite/zt-ev4fe0io-M7B~D6p74blV_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>

<E.Duxbury@uea.ac.uk>

## Online EvolutionEcol Feb24

Dear EvolDir,

Join us for the new year of our popular, weekly, online seminar series in Evolution and Ecology.

—  
Wed 24 Feb

Dr. Siobhan O’Brien

(Institute of Integrative Biology, University of Liverpool, UK)

“Ecology and evolution of microbial social lives”

—  
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~D6p74blV\\_ZRcDtmAcg](https://join.slack.com/t/evolutionecol-x154980/-shared_invite/zt-ev4fe0io-M7B~D6p74blV_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)”

## Online Evolution Jun21-25

The Evolution conference is the joint annual meeting of the American Society of Naturalists <<http://www.amnat.org/>>, the Society for the Study of Evolution <<http://www.evolutionarysociety.org/>>, and the Society of Systematic Biologists <<https://www.systbio.org/>>. The meeting is the premier opportunity for sharing research on evolutionary biology each year.—For 2021, our conference will be virtual with live-streamed plenaries, scheduled faux-live concurrent sessions, on-demand talks, and topical networking events. For more information: <https://www.evolutionmeetings.org/> \* The conference will be held over five days, June 21 - 25. o The conference will run up to eight hours each day starting at 2:00 PM GMT (10:00 AM Eastern Daylight Time) for convenient participation of attendees from a wide range of time zones. \* Registration and talk submission will open in March. \* \*Registration rates: Society members/ \$10.00 /\$50.00 /\$125.00 Non-members— /\$50.00 /\$100.00/\$175.00 \*(for students [grad + undergrad]—/postdocs / professionals, respectively)\*. \* \* Registration for society members from countries classified as low-income, lower-middle-income or upper-middle-income economies are \*free\*— (send requests for the free registration to this address: TBA).

\* Each day—will be highlighted by a live-streamed plenary talk. On Friday, the 25th, we will live stream award symposia and talks.

\* All talk submissions—will be accepted (each attendee is limited to one presentation, but can be a coauthor on more than one). Due to scheduling limitations, only the first 1,000 submissions—will be included in the ‘faux-live’ (recorded talks are played in sequence at a specific time) concurrent sessions (and available on-demand after the session). The remainder of submissions will be made available on-demand (available to view anytime) throughout the conference. All contributed talks will be recorded.

\* Talks scheduled in faux-live concurrent sessions will be limited to 10 minutes. On-demand talks will be offered instead of posters and will be limited to—6 minutes. Talk recordings can be made through an online app on our—web interface, or can be uploaded.

\* We will have numerous opportunities for network-

ing/discussion. o After each concurrent session the speakers and attendees will participate in discussion/networking Zoom sessions focused on the same topic. o Networking lounges will be available in the conference lobby. o An open Zoom room will be available in the lobby to mingle and meet with other attendees throughout the conference. Breakout rooms will be available for group conversations. o A dedicated Slack workspace will be available for attendees to create topical channels, find other attendees with similar interests, arrange group meetings, and advertise conference-related activities. o You will be able to sign up to participate in faculty-student networking groups for coffee, lunch, or happy hour meetings

For more information: <https://www.evolutionmeetings.org/> Mitch Cruzan (He/Him) Professor of Biology Portland State University PO Box 751 Portland, OR 97207 USA Web:<https://cruzanlab.weebly.com/> Evolutionary Biology - A Plant Perspective

\*/Mitchell B. Cruzan\*/ Available through all good bookshops, or direct from Oxford University Press < <https://global.oup.com/academic/product/evolutionary-biology-9780190882679?cc=us&lang=en&#> >/

Mitchell Cruzan <cruzan@pdx.edu>

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## Online GenomeConceptCentennial Feb15-17

We are pleased to announce that “Genome Concept CentennialConference” will be held on February 15-17 using zoom. Five keynote speakers and 38 invited speakers will give their presentations.

Please visit symposium home page below for details: [http://molevo.sakura.ne.jp/DnaData\\_lab/GCC2021.html](http://molevo.sakura.ne.jp/DnaData_lab/GCC2021.html) Admission is free of charge. If you are interested to participate in this GCCC, please email to [gcc2020@nig.ac.jp](mailto:gcc2020@nig.ac.jp).

Organizers IKEO Kazuho, National Institute of Genetics, Mishima, Japan

SAITOU Naruya, National Institute of Genetics, Mishima, Japan

SATTA Yoko, SOKENDAI, Hayama, Japan TAMURA Koichiro, Tokyo Metropolitan University, Tokyo, Japan

\$B:XF#@.Li(B <[saitounr@nig.ac.jp](mailto:saitounr@nig.ac.jp)>

We would like to inform you of the links, IDs and passcodes for Zoom as follows.

Please join GCCC from the links below.

Topic: GCCC2021day1 Max: 300 people)

Time: Feb 15, 2021 09:00 AM Osaka, Sapporo, Tokyo

< <https://rois.zoom.us/j/92745732011> >

Meeting ID: 927 4573 2011

Passcode: 93381

Topic: GCCC2021day2nd (Max: 300 people)

Time: Feb 16, 2021 08:00 AM Osaka, Sapporo, Tokyo

< <https://rois.zoom.us/j/95465484255> >

Meeting ID: 954 6548 4255

Passcode: 265818

Topic: GCCC2021day3rd(Max: 300 people)

Time: Feb 17, 2021 09:00 AM Osaka, Sapporo, Tokyo

< <https://rois.zoom.us/j/91984970852> >

Meeting ID: 919 8497 0852

Passcode: 372859

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## Online MICPhylogenomics Feb15-17

Dear EvolDir community,

We would like to inform you that the MIC-Phy 2021 meeting registration deadline is approaching: \*\*9th February 2021\*\*. The program for MIC-Phy 2021 can now be found here: <https://mrborges23.github.io/micphy2021/program> The \*\*Mathematical, Inferential, and Computational Phylogenomics\*\* (MIC-Phy) meeting 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.

Keynote speakers:

\* Ziheng Yang (University College of London, UK)

\* Tracy Heath (Iowa State University of Science and Technology, USA)

Invited speakers

\* Bastien Boussau (CNRS/Université de Lyon)

\* Asger Hobolth (Aarhus University)

\* Carolin Kosiol (University of St Andrews)

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

Best wishes,

Rui Borges

(On behalf of the organizing committee)

Rui Borges <ruiborges23@gmail.com>

## Online Microbiome Bioinformatics Jun7-11

Dear EvolDir Community,

The Bioinformatics Virtual Coordination Network (<https://biovcnet.github.io/>) is an online community of Early Career Researchers committed to reducing entry barriers into bioinformatics. In June 2021, we are hosting a virtual conference. The goal of the conference is to provide a step-by-step open access series of presentations that demonstrate state-of-the-art bioinformatics pipelines within microbiome research. We want to demonstrate to microbiologists everywhere how to think about and approach complex biological questions through the lens of microbiology.

\*As a speaker you will have a chance to reach an international audience and disseminate your research across microbiology disciplines. If you are interested in this opportunity, we ask that you fill out the self-nomination form with more detailed information. <https://forms.gle/Jgs9w4eG5Si5w9dW8> \*

We are striving to make the conference as inclusive as possible with specific plans to have a diverse set of speakers across multiple microbiology sub-disciplines with presentations that are accessible to individuals across the world.

We envision these presentations as hour-long seminars that detail the FULL bioinformatic methods that happen in a body of research (1 or more preprints/publications). We encourage the “full methods” to include hiccups, deadends, false positives, and issues that made you want to scream. We are looking for a “narrative” version of your research process. Itll be important to illustrate the tools, the thought-processes, your interpretation of results - all the scary stuff - to demonstrate the full workflow. The Organizing Com-

mittee will work with you as much (or as little) as you want to help guide this narrative process.

An example presentation might be something like:

- Present your system - Present the overarching biology question(s) - Start at the beginning - how many samples, types of data, why those types of data? - The process! First big checkpoint? Exciting leads that end up as a deadend? Issues with a tool that you figured out? - How do these individual pieces start to build to a result? - Tie it up in a bow! - Raucous applause!

Additionally, the Organizing Committee will work with the speakers to translate the methods in their presentation into an open format and/or workflow to be hosted on a suitable platform.

We know that this type of presentation deviates from the “standard” presentation format and may require additional content preparation and time investment. As part of our commitment to increasing open access science, we are able to provide speakers with a \$500n honorarium to support this endeavor.

We hope you consider completing the nomination form - <https://forms.gle/Jgs9w4eG5Si5w9dW8> - but if not, maybe you can think of another individual(s) who we can reach out to for this role.

We understand that you might have questions about the nature of our event and nomination process, and would love to answer your questions. We are happy to meet with you or clarify your questions over email. We strongly believe that your participation would be important for the success of the event.

Virtual conference details - <https://biovcnet.github.io/-pages/conference-2021/> 7-11 June 2021

The virtual conference will span 5 days, with 2-3 hours of activity each day.

Day 1-3: 2 Speaker presentations each day (7-9 June 2021)

Day 4: Speaker Q&A Panels (10 June 2021)

Day 5: Virtual attendee poster session (11 June 2021)

Expected attendee capacity. 75-100 attendees

Thanks in advance,

On behalf of the conference Selection Committee

Jake Weissman <jw4336@terpmail.umd.edu>

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## Online MolluscsInExtremeEnvironments Mar24

“Molluscs in Extreme Environments” - the Malacological Society of London is organizing a virtual Symposium with this title to take place via Zoom on Wednesday 24th March 2021. There will be five invited presentations, see <http://malacsoc.org.uk/meetings/> for details and updates. To register for this symposium please send an email to [harriet.wood@museumwales.ac.uk](mailto:harriet.wood@museumwales.ac.uk) including your full name and professional affiliation. Registration is free and will close on Friday 19th March.

Invitation to early career researchers: we intend to devote one of the Symposium slots of 30 minutes to a number of “Quick-Fire” presentations of five minutes each, including questions, and invite submissions to this. You need to be an early career researcher 'V Graduate Student or Post Doctoral worker 'V to be eligible. Entry is competitive 'V to be considered please e-mail a title and very brief abstract (~150 words) to John Grahame: [zoo6jgtekbush@gmail.com](mailto:zoo6jgtekbush@gmail.com) .

An “extreme environment” - we are adopting the guidance of Wikipedia [https://en.wikipedia.org/wiki/Extreme\\_environment](https://en.wikipedia.org/wiki/Extreme_environment) John Grahame <[zoo6jgtekbush@gmail.com](mailto:zoo6jgtekbush@gmail.com)>

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## Online NLSEB Apr19-20

Dear evolutionary biologist,

Last year the NLSEB meeting was cancelled due to the pandemic, but this year we are making up for that by organising the Third Conference of the Netherlands Society for Evolutionary Biology (NLSEB) online in the afternoons of 19 and 20 April 2021 (see [www.nlseb.nl](http://www.nlseb.nl)).

We have three exciting keynote speakers (Thijs Ettema, Toby Kiers, Mark van Vugt), two NLSEB prizes will be awarded and there will be three sessions with contributed presentations. The programme includes plenty of time for poster sessions and there will be the possibility to reconnect with your fellow evolutionary biologists through online socializing and networking opportunities.

Moreover, this year’s registration for the meeting is free and with your registration you automatically receive a free NLSEB membership for 2021!

Please register and submit your abstract now, by going to

<https://www.formdesk.com/nlseb/NLSEB2021> The deadline for abstract submission is 15 March 2021 and the deadline for registration is 12 April 2021.

In the mornings of 19 and 20 April, there will be the first NLSEB PhD/Post-doc meeting (online). There will soon be a separate announcement and registration call for this meeting.

Hope to see you at NLSEB2021!

“Bemer, Marian” <[marian.bemer@wur.nl](mailto:marian.bemer@wur.nl)>

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## Online Pangenomes Mar3

Dear EvolDir members,

We are pleased to announce the coming talk at the online CIGENE seminar by Danang Crysnaanto (ETH-Zürich) on 3rd March 2021 at 12:00-12:50 (Oslo time). He will talk about: “Assessing the complete genetic repertoire of a species using a pangenome graph”.

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](mailto:marie.saitou@nmbu.no)>

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## Online ProbabilisticModelingInGenomics Apr14-16

Subject: Conference: Virtual CSHL Probabilistic Modeling in Genomics. April 14-16, 2021



The third Cold Spring Harbor conference on Probabilistic Modeling in Genomics (part of the international series of meetings now in its 7th year) is going fully virtual and will commence mid-morning (EDT) on Wednesday April 14 and conclude late afternoon (EDT) on Friday April 16, 2021. CSHL welcomes abstract submissions for both talks and posters. More information can be found here <https://meetings.cshl.edu/meetings.aspx?meet=3DPROBGEN&year=3D21>. Keynote Speakers: Daphne Koller, insitro Daniela Witten, University of Washington

Topics: Population Genetics I: Mutation, Recombination & Demography Inference Transcriptomics and Epigenomics Applications to Cancer and other Diseases Quantitative Genetics and Association Mapping Machine Learning in Genomics Population Genetics II: Natural Selection

Co-Chairs: Lorin Crawford, Microsoft Research New England Hilary Finucane, Broad Institute Emilia Huerta-Sanchez, Brown University Flora Jay, Laboratoire de Recherche en Informatique, France Ekta Khurana, Weill Cornell Medicine Peter Koo, Cold Spring Harbor Laboratory Anshul Kundaje, Stanford University Ellen Leffler, University of Utah Tuuli Lappalainen, Columbia University & New York Genome Center Sara Mathieson, Haverford College Fernando Racimo, University of Copenhagen, Denmark Daniel Schrider, University of North Carolina

Catie Carr Conference Coordinator Meetings & Courses Cold Spring Harbor Laboratory 1 Bungtown Road Cold Spring Harbor, NY 11724 Phone: 516-367-5251 carr@cshl.edu Pronouns: she, her, hers

“You are not working from home; you are at your home during a crisis trying to work”- some random Twitter user

“Carr, Cathleen” <carr@cshl.edu>

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## Online UMichiganEEB Mar5-Apr2

The 16th annual Early Career Scientists Symposium will be held this year in a virtual format over five consecutive Fridays, beginning March 5 and concluding April 2, 2021. Our theme is “Natural History Collections: Drivers of Innovation.” The 2020 symposium was canceled due to COVID-19 but our full original lineup of speakers will present at the 2021 symposium.

Host: University of Michigan Department of Ecology

and Evolutionary Biology Dates: Fridays, March 5 -V April 2, 2021 Time: 1 p.m. -V 3 p.m. (EST) Website: <https://sites.lsa.umich.edu/ecss/> Registration: Free but required for Zoom admission. Zoom link and password will be sent to registrants via email.

SCHEDULE - March 5 | Keynote: Rob Guralnick | Sizing up new uses of natural history collections for ecogeography and global change biology - March 12 | Jocelyn Colella | Connecting next-generation museum collections to public health; Kelly Speer | Determining drivers of symbiont evolution in a multi-tier hierarchical system - March 19 | Alexis Mychajliw | Conflicts in context: natural history collections as archives of human-carnivore interactions through time; Daniel Park | Herbarium collections reveal wide variation in plant phenological responses to climate; Alex White | Biogeography of fern shapes as revealed by deep learning - March 26 | Eric LoPresti | Plants and the materials that stick to them: an ecological and evolutionary investigation; Laurel Yohe | Morphological and developmental basis of olfactory evolution: evidence from museum-collected iodine-stained bat specimens and embryos - April 2 | Keynote: Pamela Soltis | Integrative research using natural history collections: examples from herbaria

Cody Thompson <cwthomp@umich.edu>

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## SMBE AcceptingProposalsToHost 2024

Dear Colleague,

Want to meet like-minded colleagues from all over the world? Wish you could have an international conference in your field closer to home?

SMBE is looking for a local host for its 2024 international meeting. Informal expressions of interest should be from a prospective local organizing committee of scientists headed by an SMBE member and should reach SMBE President-Elect James McInerney by \*30 March 2021\*. Full proposals will need to be submitted using the SMBE template by \*15 June 2021\*. Please email your proposal to \*smbe.contact@gmail.com\*.

For details of meeting organization, please see the \*SMBE Conference Guidelines\* at [\\*https://www.smbe.org/smbe/MEETINGS/-ConferenceGuidelines.aspx\\*](https://www.smbe.org/smbe/MEETINGS/-ConferenceGuidelines.aspx) (and specifically Appendix 2 which outlines the format of proposals).\* The primary role of the local organizing committee will be to plan

the scientific programme. All other aspects of the organization will be done in association with SMBE representatives and a professional conference organizer appointed by SMBE in consultation with the local organizers.

SMBE rotates its meetings geographically to encourage international participation. \*For 2023, we are particularly requesting proposals from the Americas.\* The next three years' meetings will be virtual (2021), in Auckland,

NZ (2022), and in Ferrera, Italy (2024).

\*Please note that SMBE is not interested in proposals from professional conference organizers.\*

Looking forward to hearing from you. Sincerely, James McInerney President-Elect, SMBE  
\*smbe.contact@gmail.com\*

“Lulu Stader (SMBE admin)”  
<smbe.contact@gmail.com>

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## Antwerp EvolComputationalGenomics

The Svardal lab at the University of Antwerp, Belgium, is looking for PhD and Postdoc candidates to be part of an exciting funded project to study the occurrence and role of structural genetic variants in the rapid adaptive diversification of 100s of cichlid fish species.

In one of two available project you will either

(1) establish novel molecular and computational techniques to identify structural variants

or

(2) develop machine learning and population genomic approaches to model the evolutionary and adaptive history of these structural variants and understand their role in adaptive radiation.

We are looking mainly for candidates with a quantitative (computational genomics, population genetics) background, but also candidates with a different background interested in these topics are welcome to apply.

Closing date 01 March 2021. Earliest start date 01 April 2021. Remote work possible.

More information here:

<https://www.uantwerpen.be/en/staff/hannes-svardal/svardal-lab/open-positions-structural-variant-genomics/> Direct application link:

PhD:

<https://www.uantwerpen.be/en/jobs/vacancies/-academic-staff/?q=1433&descr=Doctoral-scholarship-holder-in-Evolutionary-computational-genomics> PhD fellowships come with competitive salary and are for 4 years conditional on positive evaluation after 1 year.

– Hannes Svardal Research Professor in Evolutionary, Ecological and Environmental Omics Department of Biology University of Antwerp

Campus Groenenborger, room U758  
hannes.svardal@uantwerpen.be

Hannes Svardal <Hannes.Svardal@uantwerpen.be>

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## BielefeldU AvianEvolutionaryGenomics

PhD studentship on the evolutionary genomics of sexual trait expression in black grouse

With Prof Joe Hoffman (Bielefeld University, Germany), Dr Carl Soulsbury (University of Lincoln, UK) and Prof Kees van Oers (Netherlands Institute of Ecology and Wageningen University, the Netherlands).

The PhD project Since Darwin first coined the term 'sexual selection' to explain the evolution of exaggerated male traits, we have come to understand the complex interrelationships among these traits, the information they encode and the life histories of the animals they are embedded into. Sexual selection is built on the idea that individual quality is signalled by the expression of these traits, yet a clear mechanistic understanding of the genetic architectures of sexual traits and the mechanisms regulating sexual trait expression remains elusive. We know that inbreeding is an important component of individual quality, and several studies have documented inbreeding depression for sexually-selected traits. Moreover, trait expression can be influenced by dynamic factors such as age and environmental variation, so epigenetic control mediated by body condition has been proposed as a means of regulating genotype-dependent sexual trait expression. Resolving long-standing evolutionary questions about mate choice and sexual selection therefore requires a fundamental understanding of the genetic and epigenetic basis of sexual traits. This project will combine the genomic inference of inbreeding with genome-wide methylation analysis to investigate the genetic and epigenetic mechanisms affecting sexual trait expression and reproductive success in a classical lek model system, the black grouse. Genomic estimates of inbreeding will be used to quantify the impacts of consanguinity on multiple sexual traits and to evaluate the 'genetic capture' hypothesis, which argues that sexual traits are influenced by the cumulative effects of large numbers of loci distributed across the genome. Finally, we will build upon a recent pilot study linking heterozygosity to sexual trait expression via differential DNA methylation (Soulsbury et al. 2017) by using a genome-wide methylation assay, epi-GBS, to identify genome-wide epigenetic signatures associated with inbreeding and sexual trait expression. Overall, this project will tackle an important knowledge gap by com-

binning detailed data from multiple sexual traits over individual lifespans with genomic and epigenetic data in a classical lekking species. The PhD student will therefore have a fantastic opportunity to tackle sexual selection using a number of innovative and cutting-edge approaches.

**Applicant's profile** We seek a bright and highly motivated student who holds a good first degree and an M.Sc. or equivalent in a relevant topic (e.g. molecular ecology, population genomics, bioinformatics). The ideal candidate will have strong quantitative skills, including proficiency in working in R and writing custom scripts. Practical experience of working with next generation sequence data (e.g. RAD sequencing, SNP array or whole genome resequencing) would be advantageous, but full training will be provided. The candidate should also be able to work both independently and as part of a multidisciplinary team. A high standard of spoken and written English is required.

**The working environment** The PhD student will be based at the Department of Animal Behaviour at Bielefeld University, Germany ([www.uni-bielefeld.de/biologie/vhf/index.html](http://www.uni-bielefeld.de/biologie/vhf/index.html)). The department is the oldest of its kind in Germany and currently hosts seven principal investigators, nine postdocs and 15 PhD students. It offers a stimulating, supportive and highly international environment as well as an excellent research infrastructure. The working language of the Department is English.

Bielefeld is a city of 325,000 inhabitants with an attractive historical centre and easy access to the Teutoburger Wald for hiking and other outdoor pursuits. It is an affordable and pleasant city to live in and is well connected to most major European cities.

This project is lab based and is located at Bielefeld University, but the PhD will also spend some time at the University of Lincoln (<https://www.lincoln.ac.uk/home>) and at the Netherlands Institute of Ecology (<https://nioo.knaw.nl/en>). The successful applicant will therefore benefit from an integrative, multidisciplinary training that will prepare her/him very well for a scientific career in behavioural ecology, molecular ecology and population genomics.

**Remuneration** This generous PhD studentship is funded by the German Science Foundation (DFG) for a period of three years and includes health insurance. The pay scale is TVL E13 (65%) which is roughly equivalent to a minimum

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## CharlesU Prague PlantSpeciation

**\*\*\*ERC-funded PhD Position in Ecology and Evolution of genome duplication in plants**

Group of Ecological Genomics (Filip Kolář) Department of Botany, Charles University, Prague, Czech Republic <https://botany.natur.cuni.cz/ecolgen> Whole genome duplication (polyploidization) is a dramatic genome-wide mutation whose ubiquity across eukaryotes suggests an adaptive benefit, though no mechanism has been identified. In the project, the successful applicant will be testing if WGD leads to phenotypic change that may confer adaptation in natural plant populations. To move beyond correlative studies, the work will combine field surveys, population ecology/genetics and targeted transplant experiments towards model stress environment (naturally toxic soil). The project will address the adaptive consequences of WGD over a hierarchy of levels: phenotype, population and species. To isolate the net effect of WGD, we will manipulate the mutation itself via synthesis of neo-polyploid lineages and complement the results by screen of adaptive potential of natural polyploid lineages using comparative niche modeling. We will build on our previous experimental and population genomic research in wild Arabidopsis, however, the PhD project will extend beyond this system to additional model plants in order to discern generality. The student will join an established international team of Ecological Genomics at the Department of Botany and their position will be funded by a new ERC Starting Grant DOUBLE ADAPT.

**\*\*The potential range of methodologies will be - fieldwork in natural populations and ploidy screening using flow cytometry - transplant experiments addressing adaptive response towards model stress environment (challenging soil) - experiments with experimentally synthesized polyploid lineages to isolate the net effect of WGD - statistical analysis of ecological, phenotypic and optionally also population genomic data available for the studied species a synthetic manner**

**\*\*We offer - creative and supporting atmosphere in international team of Ecological Genomics - monthly salary of ~1000 EUR net, competitive within the city of Prague (with subsequent rise with the progress of the study duties) - additional experience through international collaboration - work in the historical centre of a vibrant cultural Prague city**

\*\*We require - strong motivation for interdisciplinary research at the border of ecology, evolutionary biology and population genetics - willingness for a team work in an international moderately-sized research group - a MSc degree in Biology or related fields (in summer 2021 at the latest)

\*\*Desirable but not required - experience with design and evaluation of ecological experiments - background in population genetics/experience with processing high-throughput sequence data - experience with fieldwork and flow cytometric analyses

Please submit your CV, contact details for two referees and a half-page motivation letter via the STARS PhD programme <https://stars-natur.cz/>. Review of the applications will begin on March 11 2021 and will continue until the position has been filled. The exact start date is negotiable. For additional questions do not hesitate contacting Filip at [filip.kolar@natur.cuni.cz](mailto:filip.kolar@natur.cuni.cz)

Filip Kolar <[filip.kolar@gmail.com](mailto:filip.kolar@gmail.com)>

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## CharlesU SexDeterminationEvolution

Project description: The aim of the project is to examine the evolution of sex determination across amniotes, a species-rich group, involving lineages with XX/XY, ZZ/ZW or temperature-dependent sex determination. Sex chromosomes evolved from a pair of autosomes, where the emergence of a sex-determining locus triggered gradual structural changes such as accumulation of sexual antagonistic alleles, recombination arrest, accumulation of repeats, loss of functional genes and heterochromatinization. This model represents the classical paradigm for decades. Recently, large variability in sex chromosomes was documented in non-model species, questioning the role of previously assumed evolutionary drivers and other aspects of sex chromosome differentiation. It remains unclear why amniote lineages differ so substantially in the degree of differentiation of sex chromosomes. Using advanced genetic and genomic methods, the PhD candidate will attempt to solve long standing enigmas concerning the role of sexual antagonism, inversions and gene dose regulatory mechanisms in the differentiation rate of sex chromosomes in selected lineages of amniote vertebrates.

Qualifications: The applicant should possess Master degree (or equivalent title) and a proven expertise in a related field of biology. A previous experience in

molecular genetics, cytogenetics and/or bioinformatics (genomics/transcriptomics) is essential for a successful PhD candidate. Good knowledge of the English language is required.

Application: Applications should be submitted until Thursday 11/3 through the Charles University STARS site: <https://stars-natur.cz/phd-positions/biology/evolution-of-sex-determination-systems-in-amniotes?back=voqfw> Applications can be examined even until 15/4, by emailing Dr. Michail Rovatsos ([rovatsom@natur.cuni.cz](mailto:rovatsom@natur.cuni.cz))

Financial support: The PhD position will be financially supported with stipend for maximum time of 4 years, starting from October 2021. Additional support will be provided from projects financed from Grant Agency of Czech Republic.

For any additional information, do not hesitate to write an email to Dr. Michail Rovatsos ([rovatsom@natur.cuni.cz](mailto:rovatsom@natur.cuni.cz)). Info about the team's activities in our website: <https://mirovatsos.wordpress.com/> Michail Rovatsos

Assistant Professor Department of Ecology Faculty of Science Charles University Vinicna 7, 12844 Prague Czech Republic

“Michail Rovatsos, Ph.D.”  
<[michail.rovatsos@natur.cuni.cz](mailto:michail.rovatsos@natur.cuni.cz)>

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## CityU London CancerEvolution

I have funding for a PhD student to join my research group in the Department of Mathematics at City, University of London.

The student will pursue projects aligned with my research themes as part of the international Arizona Cancer Evolution Center (ACE; <https://cancer-insights.asu.edu>), which unites cancer evolution experts in London, the US, Switzerland and elsewhere. These research themes include dynamics of somatic evolution, forecasting tumour evolution, evolutionarily-informed cancer therapy (including adaptive therapy), and the evolution of cancer risk, as described at <https://robjohnnoble.github.io/research>. I'm looking for a student who has (or will soon have) a good honours degree in mathematics, physics, computational biology or another scientific discipline that has equipped them with strong analytical skills, and who is enthusiastic about applying those skills to answering important biologi-

cal and clinical questions. Demonstrated mathematical modelling capability, relevant biological knowledge, and programming experience (e.g. in C, Python, R or Matlab) are highly desirable.

Funding includes a three-year stipend (to cover living expenses), a computer, and support for travelling to conferences. The full tuition fee will be funded for UK students and for EU students who either have or can attain settled status in the UK. International applicants are encouraged to apply and should mention whether they have means to cover the difference between the international and UK/EU tuition fees.

Interested candidates should email me a cover letter (one page), CV, transcripts, and the names of two references.

The position will remain available until filled, with an initial application deadline of 15th March 2021.

The latest preferred starting date is July 2021.

Prospective students should feel free to email me questions.

Dr. Robert Noble robert.noble@city.ac.uk  
<https://robjohnnoble.github.io> <https://twitter.com/robjohnnoble> “Noble, Robert”  
 <Robert.Noble@city.ac.uk>

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## EAWAG Switzerland Aquatic Evolution

The goal of the PhD project is to investigate how environmental warming may influence competitive community assembly in phytoplankton. As lake ecosystems warm, resource limitation may also become more severe and together these abiotic changes individually and interactively reshuffle communities. Importantly, environmental temperature may fundamentally alter how taxa respond to resource availability in their environment (at the cellular level) and may thereby alter competitive hierarchies and dynamics among species. The experiments planned for this project therefore aim to tie together effects of warming at multiple levels of biological organization from cells to communities and ecosystems.

The selected PhD candidate will run a combination of lab microcosm and field mesocosm experiments and use these experiments to test theoretical predictions from dynamical models of competition. The candidate will also test the ability of phytoplankton competitive traits

to explain historical natural time series data of phytoplankton communities and environmental variables in Swiss lakes over periods of warming and oligotrophication. The experiments will generate knowledge of the temperature-dependence of phytoplankton competitive traits, and will contribute a more mechanistic understanding of interactive effects between temperature and resources in aquatic communities. The PhD student would work collaboratively with a part-time scientific assistant and a Postdoc working on related experiments (examining intraspecific trait variation and evolutionary change).

The duration of the PhD position will be 4 years. The position is fully funded by the Swiss National Science Foundation, without teaching obligations. The PhD student would be part of the PhD program in Ecology at ETH Zurich (enrolment at the University of Zurich is also possible). The candidate will be based in Biodiversity and Ecosystem Functioning Group of Dr Anita Narwani at Eawag in Dübendorf, but will also benefit from interactions with the group of Prof. Dr Janneke Hille Ris Lambers at ETH Zurich.

We are looking for a highly motivated person with interests in global change ecology who is enthusiastic about conducting experimental work designed to confront theoretical models with data. The project is 80% empirical (running controlled experiments in the lab and the field), and 20% analysis of existing time-series data from Swiss lakes. The project would therefore benefit greatly from a candidate who has a good mix of practical, experimental and quantitative skills. The PhD student will take a leading role in the project, and should therefore be well-organized and good with time management and communication.

The successful candidate is expected to hold a MSc (but not higher) in biology or other relevant field, to have experience running ecological experiments and analysing data (preferably aquatic or microbial ecology), to be comfortable programming in R, and to have demonstrated skills in scientific communication (i.e. conference talks and/or published papers). Other desired qualifications include a strong background in theoretical community ecology (ideally knowledge of coexistence and competition theories), experience testing dynamical models and an understanding of phytoplankton and lake ecosystems. A commitment to work collaboratively and interactively with other members of the research group is highly valued, as is a willingness to help mentor student projects. Fluency in English is required.

The Biodiversity and Ecosystem Functioning Group holds it as a core value to foster inclusivity and to create a diverse, collaborative and open

work environment. Eawag offers a unique research and working environment and is committed to promoting diversity and equal opportunities for underrepresented minorities, and to support the compatibility of family and work. Applications from women are especially welcome. For more information about Eawag and our work conditions please consult [www.eawag.ch](http://www.eawag.ch). Eawag is located within the Zurich metropolitan area, the city of Zurich is continuously ranked among the top cities in the world for quality of life and is within close proximity to the Swiss Alps.

Applications must be submitted by 15 March 2021, and should include: 1) a cover letter with a concise statement about your previous research, your vision for the future and your motivation to work on this project (2 pages maximum); 2) a curriculum vitae including a list of publications (as applicable); 3) description of your academic qualifications and 4) names and contact information of 3 academic references (please do not include letters with the application). The preferred start date will be late spring / early summer 2021.

For any information, please contact Dr. Anita Narwani ([anita.narwani@eawag.ch](mailto:anita.narwani@eawag.ch)).

We look forward to receiving your application. Please send it through this webpage, any other way of applying will not be considered.

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## FU Berlin Termite Genomics

**\*\* DEADLINE EXTENSION:** Doctoral position on termite genomics. Deadline for applications: 15th 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](mailto:dino.mcmahon@fu-berlin.de)).

Deadline for applications: 15th 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](mailto:dino-peter.mcmahon@bam.de)>

## George Washington U Bioinformatics

The Department of Biostatistics & Bioinformatics at The George Washington University has a new MS and PhD Program in Health and Biomedical Data Science with concentrations in both Biostatistics and Bioinformatics. Our group has a strong interest and track record in method development, software implementation, and application to a diversity of public health and evolutionary questions. You can find out more about our programs and faculty here: <https://publichealth.gwu.edu/departments/biostatistics-and-bioinformatics/programs>. Because our programs are new, we have extended the application deadline to March 15, 2021. To apply, simply go to the program website and click the 'Apply' button. Prospective students should feel free to reach out to me directly with questions about our programs.

Sincerely,

Keith Crandall

Professor Keith A. Crandall, PhD, FAAS < <https://www.aaas.org/fellows> >, FLS Director, Computational Biology Institute Director, GW Genomics Core < <https://www.gwgenomics.org/> > Co-Director of Informatics, CTSI-CN Co-Director, Health and Data Science—Graduate Programs < <https://publichealth.gwu.edu/departments/biostatistics-and-bioinformatics/programs> > Department of Biostatistics and—Bioinformatics < <https://publichealth.gwu.edu/departments/biostatistics-and-bioinformatics> > Milken Institute School of Public Health < <https://publichealth.gwu.edu/> > The George Washington University < <https://www.gwu.edu/> > 800 22nd Street, NW - Suite 7000D Washington, DC 20052-0066, USA (o): 571-553-0107 | (m): 202-769-8411 Twitter < <https://twitter.com/crandallkeith> > |—LinkedIn < <https://www.linkedin.com/in/keith-a-crandall-8a9b0a9> > | Google Scholar < <https://scholar.google.com/citations?user=nccuYroAAA&hl=en&oi=ao> >

“Prof. Keith A. Crandall” <kcrandall@gwu.edu>

## Halle Germany Drought Adaptation-Neotropical Dry Forests

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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## HumboldtStateU EvolutionOlfaction

We anticipate having two funded, 2.5 year MS positions starting Fall (August) 2021 to study the evolution of the peripheral olfactory system in plethodontid salamanders at the morphological and molecular level, with the underlying question being how they adapt to smell in both water and air. Plethodontid salamanders have a variety of life history modes, ranging from larvae with metamorphosis, to direct development, to neoteny, making them ideal to examine the adaptation of the olfactory system to water vs. air as olfactory media. This integrative project will involve field-collecting of animals and laboratory analysis of the olfactory system using techniques such as histology, electron microscopy, microCT analysis, immunohistochemistry and in situ hybridization. For more information about the HSU Biology graduate program in general, please see: <https://biosci.humboldt.edu/graduate-program>. We expect to begin review of interested students the week of 8 February 2021. Selected students will be asked to formally apply to the HSU graduate program by the end of February.

**Qualifications** Applicants must meet the requirements for admission to the Biology graduate program, with the exception that we understand that the application materials will be received after the listed departmental application deadline.

**To Apply** Potential applicants should contact either Dr. John Reiss ( [john.reiss@humboldt.edu](mailto:john.reiss@humboldt.edu)) or Dr. Karen Kiemnec-Tyburczy ( [karen.kiemnec@humboldt.edu](mailto:karen.kiemnec@humboldt.edu)) with an email that briefly describes their background, qualifications and interest in this project. Only students invited to apply by the PIs should submit a graduate program application with expectation of funding from this project.

Karen M Kiemnec-Tyburczy  
<[Karen.Kiemnec@humboldt.edu](mailto:Karen.Kiemnec@humboldt.edu)>

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## IMPVienna MetastasisEvolution

**PhD position:** Mechanisms of immune evasion in metastatic cancer EC International training network EVOMET

The Research Institute of Molecular Pathology 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 group

The Obenaus lab focuses on understanding the molecular mechanisms underlying tumor progression and metastasis and employs a wide array of molecular biology, biochemistry, and in vivo approaches to understand molecular determinants of response and resistance to targeted and immunotherapies and identify new therapeutic entry-points.

The project Understanding how the immune system affects cancer progression remains one of the fundamental questions in cancer biology and is crucial for the development of effective therapies. To dissect the molecular mechanisms of immune evasion and their emergence during tumour dormancy and metastatic colonization, we will use established metastasis models combined with a novel technique we have developed, utilizing CRISPRa to trace clones in heterogeneous cell populations (CaTCH; Umkehrer et al. Nature Biotechnology, 2020). CaTCH enables lineage tracing of millions of cells with stably integrated DNA barcodes (BCs). Importantly, activation of a reporter allows FACS-based isolation of clones with distinct phenotypes of interest (i.e. tumour cells that stay dormant or escape dormancy in an immune-competent or -deficient background), enabling their mechanistic workup. We will assess the immune-contexture, mutational load and the transcriptional programs in these selected cancer cell clones and their pre-selection counterparts. By integrating clinical data, we will identify candidate mediators of these phe-

notypes, probe their role in functional metastasis assays (gain/loss of function) and dissect the underlying mechanisms.

The candidate A strong interest in tumour evolution, metastasis and cancer immunology is an essential prerequisite, as is passion and perseverance in equal measure. The successful candidate for this position should:

Be highly motivated, curious and have a pro-active mindset.

Have a critical mindset to analyze her/his results and be able to work independently, while receiving support and mentoring from their supervisor.

Previous experience in working in a research lab is required. Be proficient in English (English is the working language in our lab and institute).

Application Interested candidates should apply via the EVOMET webpage <https://evomet-itn.eu/> with the application deadline on March 8th, 2021.

“Khadraoui,Mehdi” <mehdi.khadraoui@imp.ac.at>

## KULeuven HumanParasiteEvolution

ITM's Molecular Parasitology Unit (MPU) focuses on Leishmania research, both fundamental and applied. During the last 20 years, it developed a worldwide recognised leadership on: The biology of parasite adaptation to drugs, Genomics, transcriptomics and metabolomics, Parasite evolution.

The laboratory has extensive expertise in parasitology, molecular biology and bio-informatics, and pioneered research on Leishmania genome diversity. The unit opens a full-time PhD researcher position within the context of a research project funded by the Flemish Research Council (FWO).

The project aims at understanding the evolutionary history and epidemiology of *L. braziliensis*, a protozoan parasite that is the major cause of (muco-)cutaneous leishmaniasis in Central and South America. Intriguingly, *L. braziliensis* and its sister-species *L. guyanensis* are associated with a persistent double-stranded RNA virus named Leishmanivirus 1, a member of the family Totiviridae. The Leishmania parasite and the Leishmania virus form a tripartite symbiosis together with the mammalian host or the sandfly vector. In our project, we hypothesise that a joint inference of virus and parasite evolutionary histories will reveal unparalleled in-

sights into the specific climatic, spatial and environmental factors that drive the distribution of cutaneous leishmaniasis in South-America.

The project is embedded within various research groups, including MPU (Dr F Van den Broeck, Prof JC Dujardin) and the Evolutionary and Computational Virology Lab (Prof P. Lemey, Dr F Van den Broeck) in Belgium, the Laboratory of Research on Leishmaniasis in Brazil (Prof E. Cupolillo) and the Laboratory of Cellular and Molecular Biology of Trypanosomatids in Peru (Prof J. Arevalo).

### ASSIGNMENT

- You will assist in culturing hundreds of *L. braziliensis* isolates within Leishmania research facilities in Brazil and Peru, in order to generate whole genome and transcriptome data for both the parasite and its virus.
- You will perform bio-informatic analyses, in order to obtain viral genome assemblies and genome-wide parasite genotypes.
- You will perform population genomic analyses on the *L. braziliensis* parasite, in order to study the evolutionary history of the parasite in South-America.
- You will perform Bayesian phylogeographic and phylodynamic analyses of the Leishmania virus in order to understand the epidemiology of the virus at various spatiotemporal scales.
- You will perform co-phylogenetic analyses between the parasite and its virus, in order to characterise the co-evolutionary history between both species.
- You will perform landscape genetic analyses to investigate the role of climatic, spatial and environmental factors on the epidemiology of *L. braziliensis*.
- You will work within various research facilities in Belgium, Peru and Brazil.
- You will prepare a PhD-thesis within a period of four years.
- You will present your research at scientific conferences and write scientific manuscripts.
- You will apply for external financial research grants.
- You will supervise master students.

### PROFILE

- You have a Master in Biology, Bio-informatics, Statistical Genetics, Biomedical Sciences or other relevant sciences.
- You have a good understanding of evolutionary biology and genetics.
- You have knowledge and/or you are interested in learning about bio-informatics, population genomics, phylogenomics, Bayesian phylogenetics.
- Experience with Leishmania molecular biology is a plus.
- You have a strong interest in scientific research.
- You are interested in conducting research where wet- and dry-lab approaches are combined.
- You have good analytical skills, you are curiosity-driven, precise, accurate, organised.
- You have good communication skills and you are a team-player.
- You are fluent in academic English (speaking and writing).

**OFFER**

ITM is an open and international campus where staff, students and researchers work on new international health challenges. We strive for excellence, integrity, specificity and efficiency. Your assignment contributes to our mission. We value human dignity and diversity, academic creativity and a critical spirit, solidarity and cooperation, and the well-being of employees, students, patients and clients. Together we ensure a pleasant working atmosphere with attention to work-life balance and opportunities for training.

We offer: A fulltime contract as a research assistant for a period of two times two years, after positive intermediate evaluation. Starting at the latest on 1 April 2021. A salary set according to the pay scales of ITM and the Flemish universities and to your work experience with supplementary benefits: a public transportation subscription and/or bicycle fee, private pension scheme and meal voucher subscription

For more information about this position, please visit our website

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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>

## **LundU Sweden AnaerobicProtists**

Dear colleagues,

The Stairs lab (Lund University, Sweden) is looking for a highly-motivated PhD candidate to investigate syntrophic interactions in anaerobic protists. Details of the position and how to apply can be found below. Thank you for sharing this with any suitable candidates or within your local networks.

All details can be found: <https://lu.varbi.com/-what:job/jobID:382225/> Brief introduction to the position: 'Doctoral student in Microbial Evolution'

Every ecosystem on our planet is composed of a complex community of organisms. The function of these ecosystems is often dependent on interactions 'V or symbioses 'V between community members. In the microbial world, symbiotic interactions based on syntrophy (i.e., a type of mutualistic symbiosis where nutrients are exchanged between organisms to allow for metabolic division of

labour) are common, especially between prokaryotic organisms in anoxic environments. Such interactions are essential drivers of biogeochemical processes like global carbon, nitrogen and sulphur cycling. Whether similar roles can be attributed to single-cell eukaryotes (protists) occupying low-oxygen environments remains unclear owing in large part to our limited understanding of the biology, syntrophic potential, and metabolism of anaerobic eukaryotes.

**Work duties**

The candidate will lead a project aimed at exploring the metabolic and syntrophic potential of eukaryotic life in low-oxygen environments using bioinformatic and experimental methods. The candidate will use analytical and genomic techniques to investigate the nature, stability and versatility of protist:prokaryote interactions in vitro. We will also use cultivation-independent single-cell methods to isolate individual protist cells and their associated microbial consortia from local freshwater environments. Symbiotic potential of the protists and their resident microbiome will be predicted using state-of-the-art single-cell genomic and transcriptomic methods.

The prospective doctoral candidate will join the Molecular Cell Biology Unit in the Biology Department at Lund University under the supervision of Dr. Courtney Stairs who has a background in eukaryotic microbiology and Prof. Karin Rengefors a leading researcher in aquatic ecology. The project will develop both 'wetter' and 'drier' experimental competencies of the candidate in single-cell isolation, differential proteomics, genomics, and phylogenetics.

More details and how to apply: see <https://lu.varbi.com/what:job/jobID:382225/> Deadline: April 08, 2021

Contact information: Any questions can be directed to [courtney.stairs@biol.lu.se](mailto:courtney.stairs@biol.lu.se), but all applications must be submitted at the above 'Varbi' link.

Courtney Stairs <[courtney.stairs@biol.lu.se](mailto:courtney.stairs@biol.lu.se)>

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## MaxPlanck EvolutionaryBiology

The International Max-Planck Research School for Evolutionary Biology opens its 2021 search for outstanding PhD students. Further information here <https://evolbio.mpg.de/imprs>

“rainey@evolbio.mpg.de” <rainey@evolbio.mpg.de>

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## MichiganTech 2 PlantMolEvolution

\*Two Graduate Positions Available in Plant Molecular Evolutionary Ecology \*

\*Dr. Erika Hersch-Green's Lab at Michigan Technological University, Houghton MI \*

Two graduate positions (1 PhD and 1 MS) are available in my lab at Michigan Technological University to join a multi-year NSF-funded project. Research in my lab seeks to understand the origin, maintenance, and changes of genetic, phenotypic and species diversity patterns and current projects are related to plant genome size evolution and ecology, species interactions (plant-herbivore-pathogen-pollinator-plant interactions), and invasive species biology.

\*The overall premise of this funded project is to examine whether and how nutrient availabilities, disturbances, and plant genome size together contribute to the structuring of terrestrial biodiversity patterns from the molecular and functional attributes of organisms to multispecies assemblages\*.

\*PhD student\* will mainly focus on field-based projects that incorporate phylogenetic modelling approaches to examine how changes in nutrient conditions, disturbance regimes, and species interactions affect functional traits and multispecies biodiversity patterns across sites that vary in multiple environmental factors. \*Candidate must have a M.S. degree in a related discipline. \*

\*MS student\* will mainly focus on plant assemblages that vary in genome sizes to examine how resource availabilities and allocations influence genome, transcriptome, and metabolic properties of plants.

Both students will have the opportunity to work with

national and international teaching and research collaborators, be involved in teaching workshops/activities to enhance scientific teaching and communication skills, and be expected to develop complementary research projects.

Candidate must have prior research experience in plant ecology, evolutionary biology, and/or molecular ecology, a good quantitative background (including statistics), and strong writing and computing skills. Other favored skills including experience with flow cytometry, Li-Cor machines, transcriptome sequencing, and/or in community phylogenetic methods.

\*Funding for these positions are provided (stipend and tuition\*). \*Interested candidates\* should contact Dr. Erika Hersch-Green by email (eherschg@mtu.edu) and include an updated CV and a statement of research interest 'V clearly specifying which position they are applying for in the SUBJECT LINE. \*Initial review of applicants will begin March 1st\* and preferred candidates will be contacted for references and an interview. I anticipate PhD student starting mid-May to early June (for field centered research) or MS student mid-August (for molecular centered research).

Michigan Tech is located in Houghton, MI on the south shore of Lake Superior. Houghton was recently named one of the 100 best small towns in America and the area is known for its natural beauty, pleasant summers, abundant snowfall, and numerous all-season outdoor activities. The University maintains its downhill and cross-country ski facilities adjacent to campus and a nearby golf course. Numerous cultural activities and opportunities are available on campus and in the community.

\*Links for more information: \*Michigan Tech Home Page (<http://www.mtu.edu>); Michigan Tech Graduate School (<http://www.mtu.edu/gradschool>); Michigan Tech Department of Biological Sciences (<http://www.mtu.edu/biological/>); Michigan Tech Recreation (<http://www.mtu.edu/recreation>); Webcams (<http://www.mtu.edu/webcams>)

Erika Hersch-Green, Associate Professor Department of Biological Sciences 740 DOW Building Michigan Technological University 1400 Townsend Drive Houghton, MI 49931 Office: 906-487-3351 Fax: 906-487-3167 Email: [eherschg@mtu.edu](mailto:eherschg@mtu.edu)

Erika Hersch-Green <[eherschg@mtu.edu](mailto:eherschg@mtu.edu)>

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## MonashU MarineEvolEcol

We are seeking a PhD candidate to join the research groups of Keyne Monro and Kay Hodgins in the School of Biological Sciences at Monash University, Melbourne, Australia. Note that the position was advertised last year, but went unfilled due to impacts of COVID-19.

The project will blend quantitative genetics, genomics, and theory to explore evolution, adaptation and extinction risk in marine populations facing rapid ocean warming in southeast Australia, with a particular focus on the marine tubeworm, \*Galeolaria\*. We are especially keen to hear from interested candidates with backgrounds in evolutionary biology, ecology, or genetics, strong quantitative skills, and good grasp of experimental design.

Monash PhD scholarships are open to Australian/NZ and international applicants, and are awarded based on academic record, research experience, and any research outputs. Successful applicants will receive a fully-funded PhD stipend for 3 years with the possibility of 6 months extension. The stipend includes tuition fees, ~\$29,500 AUD per year tax-free, and the cost of compulsory health cover for international students. A one-off relocation allowance is also available to eligible students coming from interstate (\$1,000AUD) or overseas (\$1,500AUD).

Applicants must possess a MSc (research) or BSc or equivalent degree, including a research project of at least 6 months full time (or equivalent) duration, and must meet Monash's English language proficiency requirements. More information about the application process and requirements can be found here: <https://www.monash.edu/science/schools/biological-sciences/postgrad/how-to-apply>. If interested in applying, please send a CV, academic transcript, brief statement of research interests, and contact details of two referees to [keyne.monro@monash.edu](mailto:keyne.monro@monash.edu) by Friday 12th March, 2021. Short-listed candidates will be contacted for more information and invited to interview.

Monash University is a member of the Group of Eight, a coalition of top Australian universities recognized for excellence in research and teaching. The School of Biological Sciences is a dynamic unit with world-class strengths in evolutionary biology, ecology, genetics, and the nexus of those disciplines (<http://monash.edu/science/about/schools/biological-sciences/>). The University is located in Melbourne, one of the world's most

liveable cities and a cultural and recreational hub.

Keyne Monro

Lecturer and Group Leader

School of Biological Sciences

Monash University

Victoria 3800, Australia

[keyne.monro@monash.edu](mailto:keyne.monro@monash.edu)

<http://monrolab.org/> +61 3 9905-5608

["keyne.monro@monash.edu"](mailto:keyne.monro@monash.edu)

<[keyne.monro@monash.edu](mailto:keyne.monro@monash.edu)>

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## NordU Norway AdaptationGenomics

PhD fellowship - The genomic basis of temperature adaptation across space

A 3-year PhD fellowship is available at the Faculty of Biosciences and Aquaculture, Nord University (Bodø, Norway) from June 2021. Application deadline: 17 March 2021.

We are offering a PhD position to study the genomic basis of temperature adaptation in the marine snail *Littorina saxatilis*. Understanding how organisms adapt to their environment at the genomic level is a major goal in evolutionary biology; research on adaptation to local climatic conditions obtains great urgency in times of anthropogenic climate change. *L. saxatilis* is an emerging model system in evolutionary genomics and very suitable for studying temperature adaptation as it inhabits a large range of climatic environments, which often vary on small spatial scales. The PhD position will be part of an international project focusing on how temperature adaptation changes across space, e.g. whether the same traits and loci contribute to adaptation to warm temperatures in different geographical locations. Towards this goal, snail sampling across Europe will be combined with experimental and genomic approaches.

The PhD project will aim to: 1. Reveal the genetic basis of temperature adaptation in different locations using temperature experiments followed by QTL mapping. 2. Identify genes associated with temperature adaptation using gene expression analysis.

The project will include some field work and the design

and performance of physiological experiments, but the largest part of the work will consist of the analysis of genomic datasets. The PhD student will be part of an international research team and, among other things, acquire skills in fieldwork, experimental design, molecular lab work, bioinformatics, and statistical data analysis. The PhD student is expected to spend several months at the Tjärnö Marine Laboratory in Sweden to conduct experiments.

**Qualification requirements:** The candidate must have obtained an MSc (or equivalent) in evolutionary biology, computational biology, biology or similar, with a grade average of B or better (or equivalent) both for the program in total and for the master's thesis. Enthusiasm about evolutionary research, high motivation to learn new skills and some experience with coding and / or genomic data analysis are crucial requirements. Ideally the candidate will have some experience in one or more of the following areas: Biological field work, experimental work, QTL mapping, RNAseq / gene expression analysis. Proficiency in oral and written English is essential and knowledge of a Scandinavian language is beneficial for the position. The successful candidate will join the PhD program in Aquatic Biosciences at Nord University and is expected to complete the study within the three-year project period. The candidate should fulfill the admission requirements and participate in the training component stipulated in the regulations of the PhD program. Application for admission to the program must be submitted within three months after taking up the position. For admission requirements and regulations, please see <https://www.nord.no/en/studies/phd-in-aquatic-biosciences>. For further details, a list of required documents and the link for submitting the application please visit <https://www.jobbnorge.no/en/-available-jobs/job/199119/phd-fellowship-the-genomic-basis-of-temperature-adaptation-across-space>. Anja Westram Faculty of Biosciences and Aquaculture Nord University N-8049 Bodø Norway

Anja WESTRAM <anja.westram@ist.ac.at>

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## NRS McGillU FishBiodiversity

### TWITTER FEED:

Arctic marine systems are warming and incurring biodiversity loss at 3x and 5x the global averages. We need to know more about species there before they disappear.

Arctic marine fish ecology and evolution jobs in McGill's NRS. PhD students, Postdocs and Labtech positions available. See <https://denisroy.weebly.com/>; <http://mckinneylab.weebly.com> /opportunities, and EvolDir Jobs and Graduate positions - for more details.

Ad:

WHERE: Department of Natural Resource Sciences, McGill University

WHAT: Grad student (PhD),

Start date: Fall 2021

Members in the Department of Natural Resource Sciences at McGill University are seeking highly motivated applicants for graduate student and research technician positions for the FISHSENS project for Fall 2021. Most marine fishes in Canada's Arctic are not well enough known to assess how they will be affected by climate change, information which is urgently needed to reduce Arctic biodiversity loss and protect northern cultural and food systems.

FISHSENS will combine genomics data with dietary and movement assessments to develop tools needed by federal and Inuit co-management partners to establish Arctic marine fish monitoring strategies and assess their sensitivity to climate change. Recruited candidates will develop projects combining laboratory and data analysis approaches and will collaborate with Canadian academic, government, and Inuit organizations in Nunavut and the Inuvialuit Settlement Region in the Northwest Territories.

McGill University is committed to diversity and equity and welcomes applications from Indigenous persons, women, persons with disabilities, ethnic minorities, persons of minority sexual orientation or gender identity, visible minorities, and others who may contribute to diversification. For more information on support, funding, and community for Indigenous students at McGill:

<https://www.mcgill.ca/undergraduate-admissions/-indigenous-students>; <https://www.mcgill.ca/fph/>

McGill University is Canada's premiere university for research excellence and teaching, is one of the top 50 universities worldwide, and was recently named the International Sustainability Institution of the Year. The Faculty of Agricultural and Environmental Sciences is located at McGill's Macdonald Campus, just 30 km from vibrant downtown Montreal, providing students with both urban culture and recreational opportunities.

Graduate students at Mac campus are  $\hat{A} \frac{1}{4}$  of the student body and the campus houses 8 graduate programs and 100+ faculty members. See here for more information: <https://denisroy.weebly.com/>; <http://mckinneylab.weebly.com>

[mckinneylab.weebly.com](http://mckinneylab.weebly.com) ; <http://mcgill.ca>; <http://mcgill.ca/nrs> Ideal candidates will have a strong work ethic, enthusiasm for the research, independent and team-work skills, and a suitable academic training in a relevant discipline: natural resources, ecology, evolution, genetics, bioinformatics, environmental chemistry, environmental science, or a closely related field, and experience in at least one of the following:

- DNA extractions, library preparations, quality screening, PCR, extraction robots, gel docs, and associated instruments - Stable isotopes or fatty acids extraction and analysis (GC-FID, IRMS) - Statistical analysis of biological or environmental data (e.g., in R), bioinformatics tools (e.g., VCFtools, genome assemblies, and annotation) - Fieldwork, fish identifications, working in Inuit communities and organizations

Potential graduate students will have to apply to the Department of Natural Resource Sciences at McGill, which has strict admission standards (minimum GPA of 3.0/4.0, or 3.2/4.0 in the last two years). Transcripts, letters of support, CV, and a strong personal statement are part of the application. Deadlines for fall 2021 admission are May 31st for Canadian applicants and March 15th for international applicants.

Annual graduate student stipends will be provided, with opportunities for supplementation through applications for scholarships and teaching assistantships.

Please send a cover letter indicating your research experience and goals, a CV, and, unofficial transcripts. For genomics/bioinformatics positions, send application materials to Dr. Denis Roy, Assistant Professor, at [denis.roy5@mcgill.ca](mailto:denis.roy5@mcgill.ca). For dietary/chemical tracers positions, send application materials to Dr. Melissa McKinney, Assistant Professor, and Canada Research Chair, at [melissa.mckinney@mcgill.ca](mailto:melissa.mckinney@mcgill.ca). Please ensure to write "FISHSENS positions" in the subject line. Deadline is March 13th, or until minimum positions are filled. We encourage applications from First Peoples and Canadian students.

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## StellenboschU FishGenomics

The von der Heyden Lab at Stellenbosch University is looking for PhD student interested in developing their skills in genomics and fisheries management to participate on the BiodivERsA funded project: \*Biodiversity on the run: evolutionary and socio-economic consequences of shifting distribution ranges in commercially exploited marine fishes (GenClim).\* The application will focus on using novel high-throughput data to assess and predict the impacts of climate change in range shifts of commercially exploited species in southern Africa, using genomic tools. This is collaborative project with ISPA-IU, University of Algarve (Portugal), Technical University of Denmark (Denmark) and Kiel University (Germany). Funding is available for three years for a competitive PhD fellowship (120 000 R / year), laboratory costs and travel between partner institutions. The student will be supervised by Prof von der Heyden at Stellenbosch University and Dr Romina Henriques at University of Pretoria, and work in close proximity with Prof Einar Nielsen and Dr Mark Payne (DTU), Prof Joana Robalo (ISPA) and Prof Rita Castilho (UAlg).

Applicants for this position will be hard-working, enthusiastic and independently motivated students, with an average of at least 65% for your MSc (or equivalent degree). You will need to have strong academic background in a related discipline (species distribution models, bioinformatics, population genetics/genomics) and be a good communicator, both written and orally. Ideally you would have experience with molecular and bioinformatics analyses (previous experience in handling large genetic/genomic datasets is a plus) and a good understanding of southern African marine ecosystems, although the latter is not essential. You must be able to work in a group and to enjoy problem solving. We do provide training in all analytical methodology and this is a great opportunity for students who wish to gain more exposure in genomics, bioinformatics and their application to conservation and management.

We welcome applicants of all backgrounds.

Students will be mostly based at the von der Heyden Lab at Stellenbosch University, one of Africa's leading marine research groups specializing in the use of molecular tools to understand patterns and processes driving southern Africa's rich marine biodiversity. We are a

dynamic lab, with a strong emphasis on research excellence as well as student training and support. Our work spans population genetics and phylogeography, fisheries management/stock identification, historical biogeography and the impacts of historical and contemporary climate change on species distributions. To do this, we use a wide range of tools including genomics and environmental DNA, with our overarching goal of promoting the integration of molecular tools into conservation and sustainable utilization of southern African marine species and resources. You can find out more about the von der Heyden lab and marine research at Stellenbosch University here: [www.vonderheydenlab.com](http://www.vonderheydenlab.com) or via FB [www.facebook.com/vonderheydenlab](https://www.facebook.com/vonderheydenlab) or on Twitter: @vonderheydenlab @HenriquesRo or @GenClim

Please direct all enquiries to Prof Sophie von der Heyden, [svdh@sun.ac.za](mailto:svdh@sun.ac.za) and Dr Romina Henriques, [rhenriques@sun.ac.za](mailto:rhenriques@sun.ac.za). For applications to be considered, include an academic transcript, CV and if applicable details of molecular experience. Closing date 31st March 2021.

Romina Henriques <[rohenriques@gmail.com](mailto:rohenriques@gmail.com)>

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## UAuckland InvasionGenomics

**\*Invasive genomes: what makes an avian invader?\*** A PhD scholarship, funded by a New Zealand Royal Society Marsden Fund Grant, is available with Dr Anna Santure and Dr Annabel Whibley in the School of Biological Sciences, University of Auckland, New Zealand. This project is an exciting opportunity to use genomics and evolutionary genetics approaches to understand the genome features which enable the successful adaptation of invasive bird species. The project will focus on analysing genome assemblies and resequencing data for two globally invasive species present in New Zealand, the common myna (*\*Acridotheres tristis\**) and common starling (*\*Sturnus vulgaris\**), and also use comparative approaches to contrast the genome features of invasive and non-invasive avian species worldwide.

We are looking for a candidate with a strong background in genetics along with bioinformatics, computer science, statistics or similar analytical skills, as well as a passion for evolutionary biology and ecology.

The PhD position requires the applicant to be eligible for admission to the PhD programme at the University of Auckland (see <https://www.auckland.ac.nz/en/>

[for/future-postgraduates/how-to-apply-pg/apply-for-a-doctorate/phd-entry-requirements.html](https://www.auckland.ac.nz/en/future-postgraduates/how-to-apply-pg/apply-for-a-doctorate/phd-entry-requirements.html); please note the English language proficiency requirements). Candidates should have a GPE of 7 or above (see <https://www.gpecalculator.auckland.ac.nz/#/> for a grade conversion calculator). International students are welcome to apply but because New Zealand borders are currently closed to non-residents, we may need to arrange an off-campus start to the project. In this case, please note the stipend cannot be paid until the candidate is able to arrive in New Zealand, at which point it will be back-dated.

This project is a collaboration with Dr Lee Ann Rollins at the University of New South Wales, Prof Rebecca Johnson at the Smithsonian National Museum and Dr Richard Major at Australian Museum. To apply for this position, please email Dr Anna Santure ([a.santure@auckland.ac.nz](mailto:a.santure@auckland.ac.nz)) with your CV, names and details of two referees, your academic transcript, your calculated GPE from the link above, and a short statement of interest. I welcome informal enquiries.

The PhD scholarship is available for an ideal start date between May and October 2021 and covers tuition fees and an annual stipend of NZD\$27,500 for three years. The closing date is 1 March 2021.

[asanture@gmail.com](mailto:asanture@gmail.com)

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## 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-V34 (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-V1585 (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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## UBielefeld Evolutionary Genetics

PhD position in Evolutionary Genetics available starting Autumn 2021!

We seek an enthusiastic student interested in pursuing a PhD in the EvoGen lab (principal investigator, Toni Gossmann) at Bielefeld University (<https://tgossmann.github.io/>). Our lab focuses on approaches and data analysis to identify imprints of selection in natural populations, making use of newly available biodiversity data produced through next generation sequencing approaches.

### Project

What genomic regions are involved in the processes of species differentiation and hybrid formation? While these are central problems in evolutionary ecology, little is known about the role of epigenetics underlying species differentiation and hybrid formation in animals. The aim of the project is to address this fundamental knowledge gap by investigating the role of DNA Methylation in avian hybrids and across the species spectrum, using the great tit (*Parus major*) species complex as a model. This study will combine computational approaches (e.g.—simulations, bioinformatics) as well as novel sequencing approaches and their data analysis+interpretation.

Ideal start date for this PhD position is winter semester 2021, though the exact start date is negotiable. The position is open to National and International students (EU and worldwide) and funded for 3.5 years (TV-L E13, 65%) by the European Union as part of the ERC starting grant “DECAF”.

We are seeking a student with a background and interests in any of the following: - evolution - ecological bioinformatics - next generation sequencing - biodiversity -(avian) genomics - speciation and hybridisation

Some exposure to statistics and programming is expected, though mastery of these tools is not required and there will be ample opportunity to continue to build and refine your skills through mentorship and collaboration in our lab. Wet-lab experience (e.g.—DNA

extraction from tissues) is a plus.

How to apply

Interested students are encouraged to send the following materials: -Cover letter discussing their interest in joining the lab -CV -Copies of undergraduate and (if applicable/possible) graduate transcripts to Dr.—Toni Gossmann (toni.gossmann@uni-bielefeld.de) preferably as a single PDF until March 25th, 2021.

Please see the full position advertisement for more details about Bielefeld University: [https://uni-bielefeld.hr4you.org/job/view/356/phd-position?page\\_lang=en](https://uni-bielefeld.hr4you.org/job/view/356/phd-position?page_lang=en) About Bielefeld

Down to earth, pleasantly normal and laid back: a good description of many of the city's residents and of Bielefeld itself. With a population of over 330,000 (and constantly on the rise), Bielefeld is one of the 20 largest cities in Germany. Its residents particularly appreciate the high quality of life, the advantages of a strong economic location and the range of educational and scientific facilities. More than one billion euros has been invested by the State of North Rhine-Westphalia into Campus Bielefeld, shared between Bielefeld University and the University of Applied Sciences. This has resulted in one of the most modern facilities for education and research in Germany. Few cities are as green as Bielefeld, thanks to its location amid the Teutoburg Forest, numerous parks as well as green transport corridors, with 762 kilometres of footpaths traversing the city area. For more of a city buzz, visit Siegfried Platz - known affectionately to locals as "Siggi" - in Bielefeld West, as well as Kesselbrink and Boulevard.

Toni Gossmann <toni.gossmann@uni-bielefeld.de>

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## UBradford HumanMicrobiome

\*Adaptation and community dynamics of the human oral microbiome over centuries of evolution\*

A funded PhD studentship is available at the University of Bradford, UK, with Dr Conor Meehan and Dr Andrew Tedder, in collaboration with Dr Camila Speller at UBC.

The human microbiome is composed of two categories of microbes: commensals (beneficial to the host) and pathogens (detrimental to host health). While we know quite a lot about modern microbiomes in terms of what bacteria live there, how they enter the body and how

the specific body site select for certain bacteria, little is known about the historical evolution of the human microbiome. How have commensals and pathogens interacted over the past thousand years in and on our bodies? What bacteria rely on what other bacteria for survival and has this changed over time?

Understanding three core aspects of the human microbiome (evolution, adaptation and interconnectedness) would better allow us to examine the effect of diet and human health on our resident microbes and in turn understand how shaping the microbial community in our bodies could better benefit our health.

This project aims to address these questions, focussing on the human oral cavity microbiome. Using dental calculus microbiome whole genome data collected over 5000 years from Yorkshire archaeological skeletons, we will reconstruct the evolution of the human oral microbiome in Northern England and examine the influence of diet, antibiotic exposure and urbanisation on this community. Next, by combining this dataset with modern global samples, we can extensively explore the human oral microbiome community ecology, including genetic exchange and metabolic handovers. This will allow us to investigate whether modern microbiomes interact and respond to change better than historical counterparts.

This type of historical and wide-ranging investigation of the community dynamics of the oral microbiome has never been performed and will extensively advance our understanding of this crucial aspect of human health with high relevance to the local Bradford community. We are looking for an enthusiastic PhD candidate, preferably with a background in some (but not necessarily all) of the following topics: bioinformatics, molecular evolution, microbial ecology, phylogenetics

The application deadline is Friday 26th March 2021. Formal applications must be submitted here: [https://evision.brad.ac.uk/urd/sits.urd/run/-siw\\_ipp\\_lgn.login?process=siw\\_ipp\\_app&code1=-WEBAPP&code2=0013](https://evision.brad.ac.uk/urd/sits.urd/run/-siw_ipp_lgn.login?process=siw_ipp_app&code1=-WEBAPP&code2=0013) Informal enquires can be sent via email to either c.meehan@bradford.ac.uk or a.tedder@bradford.ac.uk

Andrew Tedder <A.Tedder@bradford.ac.uk>

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## UFribourg ComputationalConservationBiology

PhD position in Computational Conservation Biology

Statistical and Computational Biology Group (Daniel Wegmann) University of Fribourg, Switzerland

**\*\*Who we are\*\*** We are a young, international, interdisciplinary and enthusiastic research group at the University of Fribourg, Switzerland, aiming at understanding the evolutionary and ecological processes shaping the realm of biological diversity we see today. To achieve this, we design and develop new statistical and computational approaches, and apply them to big data from many biological fields. A current focus of the lab is the characterization and quantification of biodiversity, and to monitor its trends to inform conservation management.

**\*\*Your tasks\*\*** We seek a highly motivated PhD student to support our conservation efforts, particularly regarding large carnivores. The successful candidate will work closely with our partners at the WWF in Europe and at the Chinko Nature Reserve in Central Africa (<https://www.africanparks.org/the-parks/chinko>) to monitor trends in population abundances and livestock damages. The work involves curating ecological big data such as camera trap images and biodiversity records from transect, automating these curation tasks (where possible), Developing computational methods to identify trends in ecological data, And applying these methods to inform conservation management.

The position is fully funded with a competitive salary for three years, with the possibility to extend by one additional year. The successful candidate should ideally start in spring 2021, or soon thereafter. The research does not involve field work, but a visit to the Chinko Nature Reserve can be arranged.

**\*\*What we offer\*\*** We offer a stimulating research environment, well embedded in the strong bioinformatic and conservation communities in western Switzerland. We are part of the Swiss Institute of Bioinformatics (SIB) and boast excellent research facilities, including state-of-the-art high-performance computational infrastructures. Fribourg is a lively university town with pleasant surroundings (such as the Alps) and an excellent quality of life. It is located only 20 minutes from the capital of Switzerland, Bern, and just a little over an hour from Geneva and Zürich. While some knowledge of German or French is beneficial for living in Switzerland, it is not essential. The working language in our lab and institute is English.

**\*\*What you bring\*\*** You should have either A) a master degree in bioinformatics, computational biology, computer science, statistics or a related field, and a strong interest in applying these skills to support the conservation of nature, or B) a master degree in ecology, conservation biology or evolutionary biology and a strong

interest in computational methods. While experience in programming is not required, we expect candidates to be highly motivated to acquire skills in programming and statistical inference, for which we are happy to provide state-of-the-art training. Good knowledge of written and spoken English is expected.

**\*\*How to apply\*\*** To receive full consideration, apply before February 20 at <https://forms.gle/JiujaKMBkVVKXwDP8> with a single PDF file including - a cover letter with a brief summary of your previous research and motivation for the position. - a Curriculum Vitae. - copies of degree certificates and list of coursework, including grades. - names, addresses and e-mails of two professional references.

**\*\*Further information on our lab:\*\*** <https://www3.unifr.ch/bio/en/research/conservation-biology/wegmann-group.html> <https://www.sib.swiss/daniel-wegmann-group> – Prof. Dr. Daniel Wegmann  
Department of Biology University of Fribourg  
Chemin du Musee 10 1700 Fribourg Switzerland

wegmannlab.com

+41 (0)26 300 89 49 daniel.wegmann@unifr.ch

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## UGuam CoralGenomics

Hãÿfa Adai!

Are you a prospective graduate student interested in ensuring the sustainability of coral reefs and the marine environment? If you're self-motivated, well-organized, and have or will have a bachelor's in biology or another STEM field, Guam EPSCoR has a valuable graduate student research experience for you – and it's paid!

The EPSCoR Graduate Research Assistantship is a three-year program designed to train graduates in scientific research. Selected students will benefit from:

a tuition waiver of up to 12 credits per semester in a master's level program  
research training  
faculty mentorship  
possible travel opportunities  
an \$18,000 annual stipend (\$1,500 per month).

Selected applicants will choose to specialize in one or more of the following disciplines:

Ecology  
Genomics  
Oceanography

Depending on the chosen specialization, students may learn about DNA extraction and sequencing and/or how to read and analyze data to characterize marine environ-

ments. The program may involve hands-on fieldwork to investigate coral reefs or to deploy and retrieve oceanographic instruments while working at the UOG Marine Laboratory. Graduate students will also receive support for their individual thesis defenses.

The program seeks to increase the number and diversity of students who choose careers in STEM (science, technology, engineering, and mathematics). All qualified students are encouraged to apply, in particular women, minorities, and students with disabilities.

Important Dates:

Application deadline: 5 p.m. on March 31, 2021  
Decision notification: April 14, 2021  
Program start date: Aug. 16, 2021

Late applications may be considered until the UOG master's application deadline, pending availability of positions.

Download the application here.

For more information, contact: Sho Hammond Program Associate Education and Workforce Development NSF Guam EPSCoR GECCO (671) 735-0301/9 hammonds@triton.uog.edu @GuamEPSCoR

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About Guam EPSCoR The Guam EPSCoR program at the University of Guam is funded by a five-year, \$20 million grant from the National Science Foundation's Established Program for the Stimulation of Competitive Research (EPSCoR). The program aims to broaden the participation of underrepresented students in STEM fields through developing a research program that helps ensure the sustainability of coral reef ecosystems in the face of environmental change. Guam EPSCoR aims to situate Guam as a premier research and STEM education hub bolstering sustainability, economic development, and informed decision-making by engaging communities in 21st-century science.

"Hammond, Sho" <hammonds@triton.uog.edu>

## UHelsinki CompPhylogenetics

Finnish Museum of Natural History is looking for a  
DOCTORAL STUDENT

to join Tarasov Lab for a 3-year fixed-term full-time PhD position in comparative phylogenetics. The starting date can be negotiated and will take place July-October 2021.

The University of Helsinki (<https://www.helsinki.fi/en>) is an international scientific community of 40,000 students and researchers. It is one of the key multidisciplinary research universities in Europe and ranks among the top 100 international universities in the world. The Finnish Museum of Natural History (<https://www.luomus.fi/en>), which is part of the University of Helsinki, is a leading unit of systematic and evolutionary biology in Finland and a host to a vibrant community of researchers. We are looking for a highly motivated doctoral student to join the research group of Dr. Sergei Tarasov and a broad network of collaborators. You will work on a project, funded through the three-year research grant program of the University of Helsinki. In your role as a doctoral student you will aim at (i) developing a new phylogenetic method for reconstructing ancestral species ranges, and (ii) assessing the range evolution in the context of ecological and multidimensional phenotypic data. The latter will also require developing a new approach for modeling diffusion in hyperdimensional morphospace. You will work in tight collaboration with the Lab's ongoing project on evolution of Malagasy dung beetles. The appointee will be encouraged to commit short visits to our collaborators abroad and will participate in the supervision of undergraduate students. This interdisciplinary project is an exciting opportunity to conduct research on statistical modeling, evolution and biosystematics.

ABOUT YOU A successful candidate should have: - MSc degree (or equivalent) in biology, computer science, statistics, bioinformatics or a related field - strong background/interest in phylogenetics, computer science or computational biology - motivation to develop and apply new phylogenetic methods - Good written and oral communication skills in English

The following skills are considered advantageous but are not required: - Programming in R - Good understanding of statistics and stochastic processes - Research experience and publications

Applicants are expected to acquire the doctoral student status in the Doctoral Programme in Wildlife Biology at the University of Helsinki during the standard 6-month probationary period (<https://www.helsinki.fi/en/research/doctoral-education/the-application-p...>).

ABOUT US You will work together with the project's Principal Investigator and the collaborators. You will be responsible for the theoretical and applied research, data analysis, writing research articles and participation in academic conferences.

The salary is based on the demands level chart for teaching and research personnel in the salary system of the Finnish universities. Doctoral students typically

start from level 2 and advance to level 3, when the research work and studies have advanced according to the plan and the publication work has begun, and eventually to level 4, when the time to completing the thesis is about one year. In addition, the appointee will be paid a salary component based on personal work performance. In total, the starting gross salary of a doctoral student is typically about 2200-2400 EUR per month. The University of Helsinki offers comprehensive services to its employees, including occupational health care and health insurance, sports facilities, and opportunities for professional development. The International Staff Services office (<https://www.helsinki.fi/en/university/working-at-the-university>) assists employees from abroad with their transition to work and life in Finland. Please submit your application through the University of Helsinki Recruitment System via the link Apply for the position (<https://www.helsinki.fi/fi/avoimet-tyopaikat/doctoral-student-finnish-museum-of-natural-history>). Applicants who are employees of the University of Helsinki are requested to submit their application via the SAP HR portal, [saphr.it.helsinki.fi](http://saphr.it.helsinki.fi).

The attachment required for the application include (in a single pdf-file): - Cover letter describing motivation and research interests (max. 1 page) - CV, publication list included - Contact details of two potential referees.

The closing date for applications is March 10th, 2021 (23:59 EET).

For more information about the position, please contact the PI Sergei Tarasov: Email:[sergei.tarasov@helsinki.fi](mailto:sergei.tarasov@helsinki.fi)

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## ULausanne Switzerland EvolutionArthropodMoultling

Dear all,

If you know of students looking for PhD opportunities we are looking for several people to join our collaborative project investigating arthropod moulting with an emphasis on genome sequencing, assembly, annotation, and comparative analysis and paleontology. Please

spread the word far and wide, e.g. if you're on Twitter retweets would be very much appreciated - THANK YOU!

=> PhD student 1 will focus on the evolution of conserved moulting modes, combining fossil and molecular data, under the supervision of Prof Allison Daley (<https://twitter.com/cambriancritter>). => PhD student 2 will study the phenotypic plasticity of moulting in semi-terrestrials, and more generally the role of transcriptomics in moulting function and evolution, under the supervision of Prof Marc Robinson-Rechavi ([https://twitter.com/marc\\_rr](https://twitter.com/marc_rr)). => PhD student 3 will characterise genomes of key arthropods for understanding the diversity of moulting, and study the phylogenomics of moulting genes and pathways, under the supervision of Prof Robert Waterhouse (<https://twitter.com/rmwaterhouse>).

PhDs: <https://jobrxiv.org/job/university-of-lausanne-27778-three-phd-positions-examining-the-evolution-of-arthropod-moultling/> Many thanks, Rob

\\ Robert M. Waterhouse O0o- [www.rmwaterhouse.org](http://www.rmwaterhouse.org)  
“” SNF Prof & SIB Group Leader Univ. Lausanne +41  
21 692 41 05

[robert.waterhouse@gmail.com](mailto:robert.waterhouse@gmail.com)

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## ULethbridge EvolutionaryNeurobiology

The Iwaniuk lab at the University of Lethbridge is currently seeking applications from students interested in pursuing a MSc or PhD in the evolutionary neurobiology of birds (<http://scholar.ulethbridge.ca/iwaniuk>).

We offer a range of research topics that combine field and lab-based approaches to understand avian diversity in brain, behaviour, and morphology. Our lab houses one of the largest comparative brain collections in the world with over 190 species represented. Dedicated lab facilities include: microtomes, dissection microscopes, epifluorescent microscope, high-resolution digital slide scanner, and state-of-the-art software for image analysis. As part of the Department of Neuroscience, we also have ample wet lab space, access to additional imaging techniques, and animal housing. Field research is supported by an array of field equipment and a dedicated 4x4 field vehicle and a lab trailer for preparing samples.

Recently completed student projects include: the effects of domestication on the chicken brain, brain morphology

of the endangered night parrot, and the evolution of the oculomotor nuclei across hawks, owls, and other birds.

Some examples of potential projects for new graduate students include:

- \* sensory ecology of extinct and endangered birds
- \* the effects of artificial selection on brain anatomy in pigeons
- \* sensory system anatomy of hawks and falcons

Other projects are also available, depending on the individual interests of prospective students. Across all projects, students gain valuable skills in dissections, histology, microscopy, stereology, and statistical analyses. Depending on the specific project, students can also gain experience in bioacoustics, morphometrics, field techniques (e.g., trapping methods, bird handling), and behavioural analysis. International travel to museums and conferences may also be possible, but is dependent on COVID19-related travel restrictions.

The University of Lethbridge offers competitive scholarship funding, including tuition waivers, for applicants based on grades and research experience. Additional information on scholarships and deadlines can be found at: <https://www.uleth.ca/graduate-studies/>. Applicants must have a background in biology or neuroscience, some hands-on research experience (of any kind) and a valid driver's license. No fieldwork experience is necessary, but applicants must be willing work outdoors as well as in the lab. International applicants are encouraged, but please note that due to the pandemic, all applicants residing outside of Canada must adhere to federal and provincial COVID19 testing and quarantine requirements.

The next deadline for applications is 1 May 2021 for a start date of 1 September 2021 or 1 January 2022.

To apply, send: 1) your c.v.; 2) unofficial copies of academic transcripts; and 3) names and contact details of at least 2 references to: [andrew.iwaniuk@uleth.ca](mailto:andrew.iwaniuk@uleth.ca).

Andrew N. Iwaniuk Associate Professor Canada Research Chair in Comparative Neuroanatomy Canadian Centre for Behavioural Neuroscience University of Lethbridge Lethbridge AB T1K 3M4 Canada office: +1 403 332 5288 <http://scholar.ulethbridge.ca/iwaniuk/home>  
Bird-brain (bÅ»rd brān)1. a person regarded as silly or stupid.

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## UMinnesota Duluth DwarfBilberryGenomics

Hello Citizens of EvolDir,

I am seeking an MS student to work on the population genomics of dwarf bilberry (*Vaccinium cespitosum*) in the Great Lakes regional National Forests. This project is a collaboration with the US Forest Service to determine the effects of restoration and management on this rare species, which serves as the host plant to the even rarer northern blue butterfly (*Lycaeides idas nabokovi*). We have secured funding for the genomic work, summer salary, and one semester of a research assistantship. During other semesters, the student would be eligible for teaching assistantships in the Department of Biology.

If you know of an undergraduate who is interested in plant genetics and wants to experience beautiful Duluth, MN (or if you are one!), please contact me at [blgross@d.umn.edu](mailto:blgross@d.umn.edu).

Best wishes, Briana Gross

University of Minnesota Duluth - Department of Biology  
Associate Professor 207 Swenson Science Building 1035  
Kirby Drive Duluth MN 55812 (218) 726-7722

Briana Gross <[blgross@d.umn.edu](mailto:blgross@d.umn.edu)>

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## UNewOrleans HawaiianDrosophila

Graduate positions (M.S. and Ph.D.) are available in the Atallah Lab (<https://sites.google.com/view/atallahlab>) in the Biological Sciences department at the University of New Orleans (UNO). We are currently looking for students interested in working on the genomics, transcriptomics and genetic modification of Hawaiian /*Drosophila*/ species. Students with a molecular background who are excited about the potential of CRISPR-Cas9, and students interested in the collection and husbandry of non-model /*Drosophila* /species, are particularly encouraged to apply.

Applicants should send an email to [jatallah@uno.edu](mailto:jatallah@uno.edu). Please include a brief description of your background (or a CV or resume), mentioning why you're excited

about this project.

The University of New Orleans is a public research university and part of the University of Louisiana system. New Orleans is a diverse and historic city with a vibrant culture.

Joel Atallah, Ph.D. Assistant professor 202 Biology Building Department of Biological Sciences University of New Orleans New Orleans, LA 70148 (504) 280-7057 <https://sites.google.com/view/atallahlab> joel.atallah@gmail.com

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## UNewSouthWales 2 EvolutionaryDataAnalysis

### PHD OPPORTUNITY IN META-RESEARCH AND RESEARCH SYNTHESIS

We have a fully funded position available jointly at Inter-Disciplinary Ecology and Evolution Lab (I-DEEL: <http://www.i-deel.org/>) within Evolution & Ecology Research Centre at UNSW (<http://www.eerc.unsw.edu.au/>)

The position comes with \$42,000 per year stipend for 3.5 years (UNSW scholarship + top-up). It is open to both Australian and international applicants.

Given the generous stipend, applicants are expected to be very competitive. We expect them to have at least one peer-reviewed publication or an equivalent publication, or experience which demonstrates their outstanding abilities.

Project title: Research synthesis and meta-research on the impacts of PFAS environmental pollutants on human and wildlife health

Background: Perfluoroalkyl substances (PFAS) are man-made chemicals that are found in our environments, posing health risk to wildlife and human populations. They were subject to numerous empirical studies and also secondary studies (i.e. systematic reviews and meta-analyses). The project endeavors to synthesize both primary and secondary literature on PFAS impacts on human and animal health. Further, this project will evaluate the evidence quality and research practices through the lens of meta-science.

This project is a computer-based project. The PhD candidate will be trained in meta-analytic procedures and is likely to become an expert in meta-analysis and sys-

tematic reviews through this project. More specifically, the candidate will learn database management, data searching techniques, text mining, multilevel statistical modeling and statistical and computational simulations. In addition, the successful candidate will contribute to development of evidence reviews, methodology and guidelines via this project.

Candidate: BSc or MSc in biological or environmental sciences with strong quantitative skills or BSc(Hons) or MSc in statistical or computer sciences. We will provide training for all aspects of research synthesis (e.g., systematic review and meta-analysis).

Supervisory Team:

Prof Shinichi Nakagawa (<http://www.i-deel.org/>)

Dr Malgorzata Lagisz (<https://mlagisz.weebly.com/>)

If interested, please email to Prof Shinichi Nakagawa (s.nakagawa@unsw.edu.au) with CV, academic record, and details of two academic referees.

### PHD OPPORTUNITY IN ECOLOGICAL STATISTICS & META-ANALYSIS

We have a fully funded position available jointly at Inter-Disciplinary Ecology and Evolution Lab (I-DEEL: <http://www.i-deel.org/>) and Ecological Statistics Research Group (<http://www.eco-stats.unsw.edu.au/>), within Evolution & Ecology Research Centre at UNSW (<http://www.eerc.unsw.edu.au/>)

The position comes with \$42,000 per year stipend for 3.5 years (UNSW scholarship + top-up). It is open to both Australian and international applicants.

Given the generous stipend, applicants are expected to be very competitive. We expect them to have at least one peer-reviewed publication or an equivalent publication, or experience which demonstrates their outstanding abilities.

Project title: Developing new statistical methods for meta-analysis for ecological and environmental applications and beyond

Background: Meta-analysis is a powerful way of quantitatively summarizing empirical evidence in many different fields encompassing medical, social and biological sciences. However, there are a number of areas which require further developments. In particular, this project will develop three areas: 1) meta-analysis of variation (e.g., using the ratio of SD or CV between two groups), 2) meta-analysis of interaction (e.g., synthesizing 2 x 2 factorial design), and 3) arm-based meta-analytic models (vs. traditional comparison-based models).

The candidate will develop different meta-analytic models and their implementations. Further, they will use simulation studies to validate and compare different meta-analytic models. These simulation studies will be often done in the context of ecological, evolutionary, conservation and environmental research, but all of the methods that will be developed through this project will have applications beyond these fields. Also, the candidate will be encouraged to develop their ideas after the initial stage of their PhD project.

Candidate: BSc(Hons) or MSc in statistical or computer sciences preferred, but applicants with other degrees with strong quantitative skills will be considered.

Supervisory Team:

Prof Shinichi Nakagawa (<http://www.i-deel.org/>)

Prof David Warton (<http://www.eco-stats.unsw.edu.au/>)

If interested, please email to Prof Shinichi Nakagawa

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## UOslo EvolutionaryGenetics

Position as PhD Research Fellow in evolutionary population genetics/genomics available at the Centre for Ecological and Evolutionary Synthesis (CEES), at the Department of Biosciences, University of Oslo.

We are seeking a highly motivated candidate with a broad knowledge about evolutionary theory to study the evolution of ant venoms using proteomics, genomics, population genetics, and evolutionary modelling. The project seeks to solve the puzzle of why some ants have hyperdiverse venoms by combining toxin pharmacology, genomics, and proteomics with physiological and population genetics modelling. This provides a unique opportunity to study selection across an exceptionally wide range of biological complexity, from molecular evolution to group selection to evolution of social behaviours.

The candidate will work with the groups of Eivind Undheim and Thomas Hansen, both based at CEES. Undheim group studies animal venoms to answer questions in evolutionary biology that relate to how evolutionary

innovations and novelties emerge and how they interact across levels of biological complexity. The Hansen group in theoretical biology has emphasis on evolutionary modelling, quantitative genetics, and statistical methods development. The candidate will be jointly supervised by Undheim (primary) and Hansen (co-supervisor), and will work at the interface between venom biology and molecular evolution (Undheim) and population genetics and evolutionary modelling (Hansen). The project will also involve collaborations with other research groups both nationally (Trondheim) and internationally (e.g. Brisbane, Australia).

\*We offer\* - A highly multidisciplinary project using cutting-edge research tools - Salary NOK 482 200 'V 526 000 per annum depending on qualifications and seniority as PhD Research Fellow - Attractive welfare benefits and a generous pension agreement - Vibrant international academic environment - Career development programmes - Oslo's family-friendly surroundings with their rich opportunities for culture and outdoor activities

The candidate must have a Master's degree or equivalent in evolutionary biology (required). Foreign completed degrees (M.Sc.-level) must correspond to a minimum of four years in the Norwegian educational system.

Application deadline is 28 February, and starting date is no later than 01 October 2021.

For additional details and to apply, see: <https://www.jobbnorge.no/en/available-jobs/job/200001/phd-research-fellow-in-evolutionary-genetics> For any other questions, please email

Eivind Undheim: [e.a.b.undheim@ibv.uio.no](mailto:e.a.b.undheim@ibv.uio.no) or Thomas Hansen: [t.f.hansen@ibv.uio.no](mailto:t.f.hansen@ibv.uio.no)

Eivind Andreas Baste Undheim  
<[e.a.b.undheim@ibv.uio.no](mailto:e.a.b.undheim@ibv.uio.no)>

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## UOslo EvolutionaryGenomics

1) PhD Research Fellow in ancient DNA and marine genomics at the Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biosciences, University of Oslo.

The PhD candidate will work in association with the forthcoming H2020 funded ERC synergy project: 4-Oceans: Human History of Marine Life: Extraction, Knowledge, Drivers & Consumption of Marine Resources, c.100 BCE to c.1860 CE <



<https://erc.europa.eu/news-events/magazine/erc-2020-synergy-grants-examples> >, with partners in Ireland, Portugal, Norway, the UK and globally.

Please find the full advertisement with application instructions here: <https://www.jobbnorge.no/en/-available-jobs/job/200012/phd-research-fellow-in-ancient-dna-and-marine-genomics> Application deadline: 28.02.2021. Starting date: 01.10.2021.

Questions about the position can be directed to Dr. Bastiaan Star ([bastiaan.star@ibv.uio.no](mailto:bastiaan.star@ibv.uio.no)) or Dr. James Barrett ([jhb41@cam.ac.uk](mailto:jhb41@cam.ac.uk))

2) PhD in genomics, ecotoxicology and ecology of bumblebees at the Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biosciences, University of Oslo.

The PhD candidate will join a multidisciplinary team to investigate patterns of spatiotemporal diversity using high-throughput sequencing of modern and historical collections of bumblebee specimens and assess current and historic pesticide use in Northern Europe.

Please find the full advertisement with application instructions here: <https://www.jobbnorge.no/en/-available-jobs/job/199998/phd-research-fellow-in-genomics-ecotoxicology-and-ecology-of-bumblebees>

Application deadline: 28.02.2021. Starting date: 01.10.2021.

Questions about the position can be directed to Dr. Bastiaan Star ([bastiaan.star@ibv.uio.no](mailto:bastiaan.star@ibv.uio.no)), Dr. Katrine BorgÅ (katrine.borga@ibv.uio.no) Dr. Anders Nielsen ([anders.nielsen@nibio.no](mailto:anders.nielsen@nibio.no)) or Dr. Markus Sydenham ([markus.sydenham@nina.no](mailto:markus.sydenham@nina.no))

Bastiaan Star <[bastiaan.star@ibv.uio.no](mailto:bastiaan.star@ibv.uio.no)>

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## UppsalaU ClimateDriveSpeciation

Graduate position:

Uppsala University is a comprehensive research-intensive university with a strong international standing. Our ultimate goal is to conduct education and research of the highest quality and relevance to make a long-term difference in society. Our most important assets are all the individuals whose curiosity and dedication make Uppsala University one of Sweden's most exciting workplaces. Uppsala University has over 45,000 students, more than 7,000 employees and a turnover of around SEK 7 billion.

A PhD student position in climate driven speciation is available at the Department of Ecology and Genetics, Animal Ecology. The Department of Ecology and Genetics is an international environment with staff and students from all over the world. Our research spans from evolutionary ecology and genetics to studies of ecosystems. For more information, see [www.ieg.uu.se](http://www.ieg.uu.se). Within the program of Animal Ecology, we study the ecological causes of and evolutionary consequences of genetic variation within and between animal species.

Institutionen för ekologi och genetik - Institutionen för ekologi och genetik - Uppsala universitet <<http://www.ieg.uu.se/>> [www.ieg.uu.se](http://www.ieg.uu.se) Institutionen för ekologi och genetik

Project description: Our group uses a combination of long-term ecological monitoring and genomic approaches in pied and collared flycatchers from a hybrid zone located on the Swedish island Åland to better understand mechanisms of speciation. Divergent climate adaptation is a likely evolutionary route to postzygotic isolation, but evidence showing that climate-driven genetic divergence may lead to hybrid incompatibilities is lacking. In eukaryotic organisms, climate adaptation largely depends on co-evolving mitochondrial and nuclear (mitonuclear) DNA, which together encode the proteins needed to build the biochemical machinery responsible for energy metabolism. The two exciting main goals of this PhD project are to identify specific allelic changes within the networks of mitonuclear units underlying both (1) divergent climate adaptation, and (2) hybrid dysfunction. To achieve these goals detailed ecological studies and field experiments will be integrated with new techniques to measure cellular mitochondrial function directly in the field, and with several state-of the art genomic approaches.

Duties: The successful candidate will conduct field sampling (including both population monitoring and field experiments), measure mitochondrial function in blood samples and perform genomic analysis. The PhD student will work together with a cross-disciplinary supervisor team, have the opportunity to actively shape the detailed development of the project and to drive the writing and publication of the results. Attendance to local seminars series, advanced relevant courses and international conferences is also expected.

Requirements: To be eligible for this position the applicant must hold a master degree (or equivalent) in ecology, evolution or in closely related disciplines. Candidates must also be able to express themselves fluently in spoken as well as written English. In ranking eligible candidates, special importance will be given to scientific skills. In the assessment of scientific merits, especially

analytic skills and the ability to formulate sharp hypothesis and logic arguments will be highly valued. We attach great importance to personal qualities such as that the candidate is highly motivated and with a strong general interest in ecology and evolution.

Additional qualifications: Previous experiences with field ornithology and/or bioinformatics are desired but not required. Previous experiences with practical research projects and statistical/mathematical modelling are highly desired.

Type of employment: Temporary position according to the Higher Education Ordinance chapter 5 § 7. The graduate program covers four years of full-time study. The position can be combined with teaching or other duties at the department (maximum 20%), which prolongs the employment with the corresponding time. The salary will be set according to local agreements. Rules governing PhD candidates are set out in the Higher Education Ordinance Chapter 5, §§ 1-7 and in Uppsala university's rules and guidelines <http://regler.uu.se/?languageId=1> < <http://regler.uu.se/?languageId=3D1> >. More information about postgraduate studies at Uppsala University is available at <http://www.teknat.uu.se/education/-postgraduate/> .< <http://www.teknat.uu.se/education/-postgraduate/> >

Policies and regulations - Uppsala University, Sweden < <http://regler.uu.se/?languageId=1> >

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## UppsalaU MutationRateEvolution

PhD position in Evolutionary Genetics at Uppsala University

The PhD-position is placed in the research group of Hanna Johannesson, within the Department of Organismal Biology. The group uses a combination of theoretical, genomic and experimental approaches to study eukaryote genome evolution. We use different fungal model system to challenge general evolutionary paradigms. The group is international and English is the working language. See Johannesson's web-page for more information on the research and recent pub-

lications (<https://www.iob.uu.se/research/systematic-biology/johannesson/publications/>).

The PhD project aims to elucidate the determinants of mutation rates in eukaryotes, using filamentous fungi of the order Sordariales as study systems. Mutation is the ultimate source of genetic variation among and within species, and hence, the mutation type, rate and fitness effect are critical parameters for understanding adaptation and species diversification. At the same time, mutations have important medical implications, being a critical factor for, e.g., ageing and the dynamics of cancer cell development. An organism's combination of basic biological traits, such as cell fate and longevity, is predicted to determine the ability of mutations to accumulate and transmit over generations, but the mutational processes and factors driving their variation are still poorly understood. A multitude of genomic and ecological information is available from the Sordariales, and can be used as a platform to start the PhD-project. The project will be planned and developed after the interest of the candidate, and may include experimental, bioinformatic, phylogenetic and/or population genetic approaches.

Requirements: Completed university education of 240 university points (högskolepoäng, hp) out of which 60 hp on advanced level corresponding to master degree in relevant field. The ideal candidate is highly motivated with thorough education and strong interest in evolutionary genetics/genomics, phylogenetics and/or population genetics. Good knowledge of English in speech and writing. Great emphasis is placed on personal qualities such as planning and organizational skills, accountability and accuracy.

Position: The PhD-student position is a 4-year appointment, and the candidate will primarily devote the time to his/her own research studies. Other departmental work, such as teaching or administration can be part of the position (maximum 20 %). Salary placement is in accordance with local guidelines at Uppsala University. The applicant must be eligible for PhD studies at Uppsala University.

Starting date: 2021-05-01 or as otherwise agreed.

Application: The application should include 1) a letter of intent describing yourself, your research interests and motivation of why you want to do a PhD, 2) a short description of your education, 3) a CV, 4) a copy of your master degree and course grades, 5) the names and contact information (address, email address, and phone number) of at least two reference persons, 6) relevant publications (including master thesis). The application should preferably be written in English.

Please submit your application by 8 March 2020, through Uppsala University's recruitment system. Use the link shown here: <https://www.uu.se/en/about-uu/-join-us/details/?positionId=375591> For further information about the position please contact: Hanna Johannesson [Hanna.Johannesson@ebc.uu.se](mailto:Hanna.Johannesson@ebc.uu.se).

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

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## UWestFlorida Salamander eDNA

The Janosik Lab (<http://www.janosiklab.com/>) at the University of West Florida is recruiting a motivated graduate student at the MS level to monitor Reticulated flatwoods salamanders using environmental DNA and develop models of detections from year to year correlated with wet/dry years, habitat restoration, and tracking data.

Research in the Janosik Lab is collaborative and focuses on using molecular techniques to answer ecological and evolutionary questions. Our work is focused in both marine and freshwater systems. We value lab members with broad interests and diverse backgrounds.

Successful applicants will begin graduate school in August 2021. The project will involve both lab and field work for the 2021-2022 academic year. To inquire about applying and to discuss the project further, please send your areas of research interest and goals, and a current CV via email to Dr. Alexis Janosik ([ajanosik@uwf.edu](mailto:ajanosik@uwf.edu)).

The deadline for application to the master's in biology program at UWF is June 1, 2021. Review begins Feb 15; applications will be accepted until the position is filled. Students accepted into the program will be provided a tuition waiver and a competitive stipend. Additionally, competitive scholarships and support may be available. Please note, the application does not require the GRE.

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

<https://uwf.edu/hmcse/departments/biology/graduate-programs/ms-biology/> Alexis M. Janosik Associate

Professor, Biology Graduate Program Coordinator  
University of West Florida

11000 University Pkwy Building 58C, 104G Pensacola, FL 32514

850.857.6033Office [ajanosik@uwf.edu](mailto:ajanosik@uwf.edu)  
[www.janosiklab.com](http://www.janosiklab.com) Learn about prevention  
[atuwf.edu/coronavirus](http://atuwf.edu/coronavirus).

Alexis Janosik <[ajanosik@uwf.edu](mailto:ajanosik@uwf.edu)>

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## UZurich PopGenWheatPathogen

PhD position in population genetics and molecular epidemiology of plant pathogens

I am seeking a PhD student to join my SNSF-funded research project at the Department of Plant and Microbial Biology, University of Zurich.

### Project Description

Agricultural pathogens cause substantial crop losses each year. To control pathogens, modern agriculture relies on pesticide treatments and breeding of resistant crop varieties. However, pesticides are harmful to the environment and to human health, and pathogen populations can quickly develop resistance to pesticides and gain virulence on previously resistant varieties. Understanding the evolutionary and epidemiological dynamics of pathogen populations is crucial to develop sustainable control strategies. The successful candidate will investigate the population genetics, evolutionary history, and epidemiology of a fungal pathogen of wheat (*Blumeria graminis*) in Europe, using whole genome sequence data. The main project will involve field work (sampling of wheat powdery mildew, ~15% of workload), lab work (maintenance of *B. graminis* isolates in the lab, and generation of whole genome sequence data, ~15% of workload), and data analysis (bioinformatics, ~70% of workload). Your profile

The ideal candidate will have completed an MSc degree in Population Genetics, Evolutionary Biology, Bioinformatics, or a related field. Experience in molecular biology techniques, programming in R, Perl or python, and analysis of next generation sequence data are a plus but not mandatory. Good English skills (speaking and writing) are expected.

### How to apply

The start date for this position is September 2021, al-

though a later date could be negotiated. Applicants are encouraged to apply as soon as possible. The review of applications will begin in March 2021, and the position remains open until filled. The position is based at the Botanical garden in Zurich. The successful candidate will join my newly established research group at the Department of Plant and Microbial Biology (UZH), and will be enrolled in the PhD program in Evolutionary Biology of the University of Zurich. To apply, submit a

CV, a short statement of interest (max 1 page) detailing previous research experience and relevant skills, and the names and contact information of two academic references as a single pdf to [fabrizio.menardo@swisstph.ch](mailto:fabrizio.menardo@swisstph.ch). Please use PHD\_AMBIZIONE\_APPLICATION as object.

Fabrizio Menardo

[fabrizio.menardo@swisstph.ch](mailto:fabrizio.menardo@swisstph.ch)

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## ArizonaStateU EvolutionInstructor

Apply and further information: <https://apply.interfolio.com/84229> Deadline (rolling basis): April 04, 2021

### Instructor in Evolution

The School of Life Sciences (SOLS) invites applications for a full-time, benefits-eligible instructor position with an anticipated start date August 2021. Subsequent academic year renewals (August 16 to May 15) are contingent upon satisfactory performance, availability of resources, and the needs of the unit.

We seek an individual who is dedicated to excellence in teaching; is invested in developing inclusive curricula and teaching approaches to support the success of our diverse students, many of whom are underrepresented in STEM disciplines; and is excited to collaborate with faculty members who are engaged in research and education in evolution, ecology, conservation, biodiversity (including systematics, phylogeny, and natural history), and behavior of organisms.

The successful candidate will be responsible for developing and teaching existing and new undergraduate courses in evolutionary biology. These courses are expected to be taught on-campus and online. In addition to teaching, other responsibilities will include supervising graduate teaching assistants and developing course materials with other faculty and staff. The selected candidate will also support the school, college, and university in capacities appropriate for the position.

The School of Life Sciences is a broadly interdisciplinary community of undergraduates, M.S. and Ph.D. students, staff, and faculty members who are committed to transforming science education and research by making learning more accessible, inclusive, and impactful through innovations in teaching and connections to nationally recognized research and education programs. The School of Life Sciences is embedded within the larger community at ASU, a dynamic, progressive university dedicated to interdisciplinary collaborations, rethinking university education, and integrating excellence in research and teaching. The university has been ranked #1 for innovation by the US News & World Report for the past six years.

The College of Liberal Arts & Sciences values our cultural and intellectual diversity, and continually strives to foster a welcoming and inclusive environment. We are especially interested in applicants who can strengthen

the diversity of the academic community. Learn more about what The College of Liberal Arts and Sciences and the School of Life Sciences have to offer by visiting <https://thecollege.asu.edu/faculty> and [sols.asu.edu](https://sols.asu.edu).

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Informal inquiries: [nico.franz@asu.edu](mailto:nico.franz@asu.edu)  
[nico.franz@asu.edu](mailto:nico.franz@asu.edu)

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## Atlanta GrantWriter MicrobialDynamics

Here is the text below for job posting at GaTech in Atlanta, GA:

Senior Research Scientist (grant writer)

**Job Summary:** The School of Biological Sciences is seeking to recruit a Senior Research Scientist to support activities of the Center for Microbial Dynamics and Infection (CMDI). CMDI is a new research unit at GT, with the mission to transform the study and sustainable control of microbial dynamics in contexts of human and environmental health. The Senior Research Scientist will be responsible for supporting faculty, early career researchers, and graduate students associated within CMDI, and will be supervised by Dr. Sam Brown.

**Responsibilities:** The key responsibilities will be to assist students, postdocs, and faculty in writing proposals, with a focus on student NIH NRSA, NSF GRFP and NASA NESSF / NPP proposals. This will include conducting regular training workshops (three per year); providing applicants with supporting materials, including guidelines and writing samples; creating and curating a comprehensive set of template documents for each proposal section; assisting applicants and their sponsors to access appropriate institutional resources and information including RCR and FCOI training, professional development resources, and OSP resources; performing miscellaneous individualized assistance such as proofreading, editing, critique of persuasive writing methods, and optimizing data display and graphics. In addition, the research scientist will assist PI members of CMDI with grant proposals (prioritizing multi-PI awards). This will include searches for funding opportunities; coordinating large and small faculty groups to gather written sections and required information to complete submissions efficiently; drafting background sections, personal statements and letters of recommendation; vetting proposal drafts; submitting final docu-

ments. In addition to the grant and fellowship focus, the research scientist will also assist Center researchers and personnel through creation or optimization of scientific figures, information and PR graphics, poster or slide presentations, and Center newsletter and website publications.

Required Documents to Attach: CV / resume, List of references, Letter of Interest

Knowledge, Skills, & Abilities: This type of research requires a high level of knowledge such as a Master's or PhD in the life sciences (with preference for a field related to microbiology); Five to seven years job related experience (including time in PhD). In addition to experience working with funding agencies including NIH, NSF, DOD, NASA or private foundations. Experience writing and editing grant proposals and creating scientific figures and graphics.

To Apply: Go to <https://hr.gatech.edu/careers> , then search job ID 223479

Contact Information: For informal inquiries, please contact Sam Brown, Director of CMDI ([sam.brown@biology.gatech.edu](mailto:sam.brown@biology.gatech.edu)). For application issues, please contact Maria Avdonina, [mavdonina3@gatech.edu](mailto:mavdonina3@gatech.edu)

“Avdonina, Maria” <[mavdonina3@gatech.edu](mailto:mavdonina3@gatech.edu)>

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## AuburnU Alabama EvolutionaryBiology

The Department of Biology and Environmental Science at Auburn University at Montgomery invites applications for a 9-month tenure-track position at the Assistant Professor level beginning August 2021. Individuals from historically underrepresented groups and all those who share our commitment to inclusivity and passion for the strength of our diversity are strongly encouraged to apply. The Department seeks candidates with an earned doctorate and expertise in biology, biology education,—STEM—education, or related field and experience and/or demonstrated passion for working with and mentoring students from underrepresented backgrounds. Teaching experience is required and candidates who employ innovative, evidence-based teaching practices are preferred. Postdoctoral research experience is also desirable. Primary teaching responsibilities for this position will focus on the freshman biology sequence, with an emphasis on improving the freshman experience

and better preparing undergraduates for success as scholars and professionals. Opportunities for teaching upper level undergraduate (and potentially graduate) courses in the candidate's field are available. The successful candidate will also be expected to develop and maintain a research program with the potential to involve undergraduate students. Student advising, as well as a commitment to university, community, and professional service is also expected.

Auburn University at Montgomery is a comprehensive, public institution located in Alabama's capital city. Enrollment is approximately 5,000 students. The Department of Biology and Environmental Science includes fourteen tenure-track faculty and offers undergraduate degrees in Biology, Environmental Science, and Geographic Information Systems (GIS) and a graduate degree in GIS. Diversity is a core value at AUM. We are committed to build and sustain an inclusive and equitable working and learning environment for all students, staff, and faculty. We believe every member on our team enriches our diversity by exposing us to a broad range of ways to understand and engage with the world, identify challenges, and to discover, design, and deliver solutions. Prospective candidates will help further the institutional goals of promoting equity, diversity, and inclusivity.

Review of applications will begin on April 1, 2021, and continue until the position is filled. To apply, complete an online application at <https://www.jobs.aum.edu/-postings/4607> and upload a cover letter, CV, academic transcripts, teaching statement, and research statement.

The successful candidate must possess excellent written and interpersonal skills to effectively interact with diverse audiences. The successful candidate must meet eligibility requirements for work in the United States at the time of appointment.

Located in Alabama's vibrant state capital, Auburn University at Montgomery is a fast-growing university on the rise. Don't just take our word for it: The Princeton Review rates us as one of the best colleges in the Southeast, while U.S. News & World Report recently ranked us No. 22 among regional universities in the South for the quality of undergraduate teaching and 38th among all public institutions in the region.

Auburn University at Montgomery is an equal opportunity employer committed to excellence through diversity; therefore, we encourage applications from historically underrepresented groups, veterans, and individuals with disabilities.

Vanessa Koelling, Ph.D.— (she/her/hers) Assistant Professor Department of Biology and Environmental Sci-

ence Auburn University at Montgomery 334-244-3144  
vkoellin@aum.edu

Mailing address: P.O. Box 244023 Montgomery, AL  
36124-4023

Street address: 7061 Senators Drive Montgomery, AL  
36117

Vanessa Koelling <vkoellin@aum.edu>

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## BrynMawrCollege ResAssoc PlantEvolution

The Mozdzer lab at Bryn Mawr College, located in suburban Philadelphia, is searching for a full-time Research Assistant Position to begin on, or about April 15, 2021. The research assistant will work on a collaborative Bridging Ecology and Evolution NSF project with colleagues at the Smithsonian Environmental Research Center and the University of Tennessee at Knoxville. Our collaborative project, "C-Evo," aims to link genetic diversity and genomic variation to measures of plant physiology and carbon cycling. The collaborative project will leverage an ongoing global change experiment at the Smithsonian Global Change Research Wetland, will initiate a new global change experiment in Maryland, and will initiate a de novo quantitative genetic study of trait variation. The initial appointment is for one year, and is subject to annual renewal for up to three additional years. The research assistant will lead a team of undergraduate students in both the field and in the laboratory measuring: greenhouse gas fluxes, plant physiology, plant functional traits, and decomposition processes. The research assistant will be responsible for maintaining the multi-year de novo quantitative genetic common garden at Bryn Mawr College, performing controlled crosses, and leading teams of undergraduate students in the measurement of plant traits, plant physiology, and decomposition processes.

### Responsibilities:

- Lead undergraduate students in the measurement of plant physiology and plant functional traits
- Lead undergraduate students in the measurement of greenhouse gas fluxes
- Measure soil processes and execute soil incubation studies
- Maintain a collection of plants in a common garden

- Measure blue carbon pools using standard techniques in the blue carbon manual

- Process, analyze, and archive project data

- Occasionally sample at irregular hours (early mornings, late nights, weekends) when necessary

- Frequent contact with the students, public, and scientists will be required

### Minimum Qualifications and Experience:

- Must have at BS in Biology, Ecology, Chemistry, Ecology, or related field with relevant field experience.

- Attention to detail, strong organizational skills, the ability to work as a member of a team, and the ability to communicate positively with the public are required.

- Travel is required. The candidate must possess a valid US driver license with a clean driving record to qualify to use Bryn Mawr College vehicles. The successful candidate will conduct fieldwork at the Smithsonian Environmental Research Center, and will require week-long travel to the field sites monthly from May to November.

### Preferred Qualifications:

- MS in Biology, Ecology, or related field, with relevant experience.

- Experience measuring greenhouse gas fluxes using a Los Gatos Research Greenhouse Gas Analyzer and/or a gas chromatograph

- Experience preparing samples for elemental analysis, and/or experience running an elemental analyzer, and/or the ability to learn

- Experience running and maintaining an elemental analyzer (e.g. Costech ECS 4010)

- Experience running and maintaining an isotopic analyzer (e.g. Picarro G2201-i)

- Experience collecting and/or analyzing greenhouse gas flux data

- Experience in measuring leaf level photosynthetic rates using a LiCor6400XT

- Experience in measuring plant functional traits

- Experience maintaining a common garden

- Experience in performing controlled crosses with grasses

- Data management and analysis in R

- Demonstrated skills in data organization, analysis, and report writing preferred

### Physical requirements:

- Must be capable of rigorous outdoor activity (lifting

approx. 40 pounds, bending, carrying heavy equipment, canoeing, walking through waist-high marine waters, tidal wetland habitat, and/or forests to access field sites).

- Must be able lead week-long field campaigns, working 7+ hours per day outdoors in tidal wetlands
- Willing to endure occasional exposure to insects, ticks and poison ivy

Benefits:

This is a full time, salaried position. The RA will be provided with Bryn Mawr College's generous benefits including: paid vacation and sick time, medical insurance, dental insurance, retirement benefits, and educational benefits.

Interested candidates should submit a cover letter, curriculum vitae, and a list of references to Dr. Thomas Mozdzer, [tmozdzer@brynmawr.edu](mailto:tmozdzer@brynmawr.edu) as a single pdf. In your cover letter, if applicable, please disclose any relevant incidents in your driving history that could prevent your ability to drive a Bryn Mawr College vehicle. Review of applications will begin immediately, but those received by March 15, 2021 will receive full consideration. The anticipated start date is approximately April 15, 2021. When submitting your application, please reference "C-Evo Research Assistant" in your subject line.

Bryn Mawr College is a distinguished liberal arts college for women with a

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## DukeU LabManager EvolutionaryBiomechanics

Graduating? Need a job before continuing to graduate school for scientific research?

The Patek Lab <https://pateklab.biology.duke.edu/> in the Biology department at Duke University has an open position for a full-time lab manager/research associate position, starting spring/early summer 2021. This is a supportive technical and administrative role for the Patek Lab's research program in the areas of comparative biomechanics, evolution, and marine organismal

biology. This position is suitable for individuals with a bachelor's degree who desire additional research experience before applying to graduate school or pursuing other careers in research science. It is not suitable for gap year pre-medical students, given that this position is geared toward research training for future basic research scientists.

If you are interested in applying, please upload a cover letter detailing your interest in the position, the Patek Lab research program, and any relevance to your career goals/interests. Please also include your CV/resume, unofficial transcript and the names/contact info for three references. These materials should be submitted to Academic Jobs Online job#18078 or <https://academicjobsonline.org/ajo/jobs/18078>. The starting salary is approximately \$40,000/year and may be adjusted according to the candidate's prior job experience and educational training.

Job applications are reviewed continuously and an offer will be made as soon as a finalist is identified. There is not a set deadline for job applications, so it is best to submit as soon as possible.

Inquiries about the position and further details about the job responsibilities, training and research experience should be sent to Prof. S. Patek, [snp2@duke.edu](mailto:snp2@duke.edu)

Additional Information:

The position has the potential to include many of the following responsibilities, training, and research experience:

- \* Receive training on: \* high speed imaging and associated technology \* digital data acquisition systems \* materials testing \* 3D printers \* microCT scanning, including 3D rendering and reconstruction. \* Assist with ongoing research projects and grant writing, including data collection, analysis, figure generation, writing, and R coding. \* Perform fieldwork at the Duke Marine Lab, including collecting specimens and coordinating research. \* Train, run, maintain, and organize staffing of aquarium system. \* Care for research organisms. \* Organize and schedule lab/PI events and meetings. \* Clean and organize lab rooms and facilities.

Duke University is an Affirmative Action/Equal Opportunity Employer committed to providing employment opportunity without regard to an individual's age, color, disability, gender, gender expression, gender identity, genetic information, national origin, race, religion, sex, sexual orientation, or veteran status.

Duke aspires to create a community built on collaboration, innovation, creativity, and belonging. Our collective success depends on the robust exchange of ideas-an



exchange that is best when the rich diversity of our perspectives, backgrounds, and experiences flourishes. To achieve this exchange, it is essential that all members of the community feel secure and welcome, that the contributions of all individuals are respected, and that all voices are heard. All members of our community have a responsibility to uphold these values.

Billy Ray <william.ray@duke.edu>

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## GeorgiaTech MicrobialDynamics

**CMDI Early Career Award Fellowship** The School of Biological Sciences is seeking to recruit an outstanding early career PhD scientist, to promote the advancement of research excellence in the Center for Microbial Dynamics and Infection (CMDI). CMDI is a new research unit at GT, with the mission to transform the study and sustainable control of microbial dynamics in contexts of human and environmental health. The successful candidate will have maximal research independence, and will be titled the CMDI Early Career Award Fellow.

We are interested in candidates with a clear track record of research excellence in areas of research that are relevant to the CMDI mission. For more information on CMDI research spanning the ecology and evolution of microbes in both infection and environmental contexts, please see our website at <https://microdynamics.gatech.edu/>. We will prioritize applicants who are within 12 months of their PhD defense, and applicants who have received their PhD in the past 12 months.

The CMDI Early Career Award Fellow will have the opportunity to establish an independent research program within CMDI, which has strong ties throughout the Atlanta research community. Fellows will receive separate lab and office space, full voting rights on the CMDI faculty committee, and the ability to co-advise graduate students. The Fellow will also receive extensive mentorship support from a panel of 3 CMDI faculty with the most relevant research interests. The Fellow will receive a competitive salary with a 3 year commitment, funding for lab start up and supplies, and access to core facilities and clinical collaborations within the Atlanta research community. A goal of this program is to have talented, young scientists pursue new ideas in an exciting research environment that currently has over 75 trainees and scientists.

To Apply: Go to <https://hr.gatech.edu/careers> , then

search job ID 223981. please submit a cover letter, CV, plus a 2 page research statement, including connections to CMDI faculty research. Strong applicants will provide clear evidence of the highest levels of research achievement.

Interviews will begin remotely in March and will continue until the position is filled.

Contact Information: For informal inquiries, please contact Sam Brown, Director of CMDI ([sam.brown@biology.gatech.edu](mailto:sam.brown@biology.gatech.edu)). For application issues, please contact Maria Avdonina, [mavdonina3@gatech.edu](mailto:mavdonina3@gatech.edu)

“Avdonina, Maria” <[mavdonina3@gatech.edu](mailto:mavdonina3@gatech.edu)>

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## HarvardU BioinformaticsScientist

The Harvard FAS Informatics Group is looking for a population geneticist, bioinformatician, or computational biologist for a staff scientist position. This individual will collaborate closely with faculty, post-docs and students to help design and implement research projects, with a focus on population and ecological genomics. In addition, this individual will help develop new methods and facilitate reproducible research practices in the analysis of sequencing data, with opportunities to publish and present their work to the wider scientific community if desired. This is a flexible job that provides opportunities for teaching, extensive collaboration, and independent research, in the context of a stable position in a strong intellectual environment with good work-life balance.

**Key Responsibilities:** –Work closely and collaboratively with Harvard faculty, postdocs, and students on the analysis of sequencing data and other biological big data, with a focus on population and ecological genomics – Lead ongoing efforts in the FAS Bioinformatics group to develop methods and build resources for non-model and comparative population genomics, in particular with a focus on resources to enable reproducible research –Teach bioinformatics workshops to the Harvard community on topics of interest

The Bioinformatics group lies at the intersection of scientific research and large scale computational analysis and works with many research groups. We are thus looking for someone who enjoys picking up new knowledge and working on a variety of projects across a range of methods, although we are particularly interested in

candidates with population genetics experience.

We are committed to cultivating not only the diversity of our faculty, staff, and students but also in developing an inclusive culture that is vibrant, engaging and encouraging of innovation as well as intellectual debate. We believe creating and maintaining an inclusive workplace allows employees from all backgrounds and walks of life to achieve their fullest potential. We also believe an inclusive culture is one that accepts, values and views as strength the difference we all bring to the workplace.

#### Basic Qualifications

A Master's degree or higher in Biology, Bioinformatics, Computer Science or a related scientific field, and at least 5 years bioinformatics experience. Experience with programming languages commonly used in bioinformatics such as Python or R, and experience with Linux shell scripting.

#### Additional Qualifications and Skills

PhD in a relevant field is strongly preferred. Expertise in the theory and analysis of population genetics data, with experience in non-model systems, is preferred. Fluency with Linux shell scripting and high performance computing, especially workflow management tools and best practices in reproducible science. The ability to explain complex scientific and computational ideas to a wide range of scientists and researchers (such as graduate students, postdocs, and faculty), including those with little or no computational experience, will be extremely important for the successful candidate.

Tim

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

“tsackton@g.harvard.edu” <tsackton@g.harvard.edu>

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### HumboldtStateU MammalogyMuseumCurator

Humboldt State University Tenure-Track Assistant Professor Position in Mammalogy

Humboldt State University and the Department of Biological Sciences invites applicants for an academic year tenure-track faculty position in Mammalogy. This individual will also serve as Curator of the Humboldt State University (HSU) Vertebrate Museum.

As an institution, HSU is committed to eliminating the equity gap in all student populations with dynamic, student-centered practices and policies that fully engage the campus community. The ideal candidate will share HSU's commitment to helping its racially and socioeconomically diverse students succeed in their degree and career objectives.

We value the ability to serve students from a broad range of cultural heritages, socioeconomic backgrounds, genders, ability and orientations. Therefore, we prioritize applicants who demonstrate they understand the benefits diversity brings to a professional educational community. The successful candidate will be an equity-minded individual committed to collaborating with faculty, classified staff, administration, and students who are also committed to closing equity gaps.

Position details and instructions to apply can be found at <https://hraps.humboldt.edu/faculty-employment-faculty>. This position is open until filled. First consideration will be given to completed applications received no later than March 19, 2021. Early response is encouraged.

Questions about the position may be directed to the search committee chair, Dr. Sharyn Marks (Sharyn.marks@humboldt.edu).

kmk877@humboldt.edu

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### JagiellonianU Gotland AvianFieldWork

Field assistant position to work on collared flycatcher population on Gotland

at the Institute of Environmental Sciences, Jagiellonian University (Poland)

What do we study: It is well established that biological rhythms are fundamental drivers of biochemistry, cell biology, physiology and behaviour. The regularity of behaviours is governed by endogenous clocks, which are adjusted and synchronised with environmental cues, primarily light. Rapidly expanding anthropopressure largely disrupts these cues. Yet, it is surprising how little we know about the effects of disorders in the functioning of the internal time-keepers in free-ranging animals. The project will aim at understanding the effects of disturbance in environmental cues, i.e. light exposure, on circadian clock of a wild migratory bird: collared flycatcher (*Ficedula albicollis*).

Job description: Field assistant will actively participate in fieldwork, collecting phenotypic, biological and environmental data related to the specific tasks in the project and in general Gotland population monitoring. The project opens an opportunity to apply for a PhD scholarship for motivated field assistants (after meeting criteria of admission to the Doctoral school of JU). Requirements: Full-time availability for a period of ca. 1.5 months (mid-May-end of June). Driving license; English language command to communicate with international Gotland team; communication, organizational and collaboration skills; experience with field work (preferably with birds) is considered advantageous; bird ringing/handling experience, bird ringing and ethical permits to work with animals are a plus.

Salary: 3000 PLN total (before tax), ticket to/from Gotland, accommodation and daily living allowance are additions to the salary ensured by the project.

How to apply: for any inquiries email the principal investigator Joanna Sudyka (joanna.sudyka@uj.edu.pl) or the project manager Wioleta OleÅ (wioleta.oles@uj.edu.pl). The application (in English or Polish) should be sent by 15.03.2021 to Wioleta OleÅ (wioleta.oles@uj.edu.pl) with the term "Field assistant" as email subject line and include: 1) CV (maximum 2 pages) with information on relevant experience and training; 2) cover letter (maximum 1 page), explaining how the applicant's background makes them a suitable candidate for the position. Selected candidates may be invited to an interview (in IES JU or online).

Joanna Sudyka <joanna.sudyka@uj.edu.pl>

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## KeanU TeachingEvolution

The Dorothy and George Hennings College of Science, Mathematics, and Technology School of Natural Sciences

Kean University, Union, NJ

Assistant Professor in Integrative Biology

- to teach undergraduate courses including General Biology; Biostatistics; Population

Genetics/Biology; Molecular Ecology; and Research Methods. We specifically invite applications from individuals with a strong background in field biology, particularly those who integrate perspectives across one or more biological disciplines and utilize modern molecular

techniques in their research and courses. Ideal candidates will have a research focus in the area of population genetics and/or population biology or emergent disease biology. We seek a dynamic teacher-scholar who can demonstrate a sustained commitment to working with diverse student learners, instructional best practices, and the development of a student-centered, externally funded research program in a culturally diverse community. In addition, the candidate will be expected to develop upper-division undergraduate courses in their area of specialization.

Qualifications: Ph.D. in Biology or a related field is required. Post-doctoral experience or a record of grant writing experience for extramural funding is beneficial.

This is a ten-month, full-time, tenure-track assignment at the rank of Assistant Professor, effective for the Fall 2021 semester. Teaching assignments and related responsibilities may include day, evening, weekend, and online courses. Courses may be taught at the Union campus, Kean Ocean, Kean Skylands or other locations.

Brian Teasdale <bteasdal@kean.edu>

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## MarineBiolLab Technician MicrobialProteinEvolution

MBL RAI V Investigating Microbial Protein Evolution with Functional Genomics

The Paul Lab seeks a highly motivated individual to join the Josephine Bay Paul Center for Comparative Molecular Biology and Evolution as a Research Assistant (Level I). Our research group is looking at the processes that diversify microbial genes, to better understand the functional significance of protein variation in cells and viruses from a variety of biomes.

The primary aim of the position is to maintain the molecular lab facilities and to assist in developing genetic experiments with bacteria/archaea primarily derived from marine and freshwater ecosystems. Responsibilities will include establishing and monitoring cell cultures, maintaining lab equipment, ordering lab supplies, and conducting basic molecular experiments.

Basic Qualifications: A Bachelors degree in biology, molecular biology or a related discipline is required. This position requires an independent, organized, and self-motivated individual with strong problem-solving skills and the ability to multitask. Prior experience in a research lab and applying basic molecular biology

techniques is required. The ideal candidate will have prior experience with nucleic acid purification, PCR, and maintaining (bacterial/archaeal) cell cultures. An understanding of basic molecular biology concepts is important.

Apply on the

MBL website: cover letter, resume/CV, copies of most recent transcripts (unofficial is acceptable), and contact details of 3 references.

Jennifer Larkum <jlarkum@mbl.edu>

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## Montpellier INRAE Entomology Phylogenomics

A permanent Research position is opening at the CBGP, Montpellier France,

<https://jobs.inrae.fr/en/open-competitions/open-competitions-research-scientists-job-profiles-crcn/cr-2021-spe-2> The Centre of Biology for the Management of Populations (CBGP) conducts research on the taxonomy, molecular systematics, phylogenomics and macro-evolutionary studies of insect groups of agricultural importance (pests and biocontrol agents). You will be part of the research department “Characterisation and Evolution of Biodiversity”. Research projects in the department focus on the description of biodiversity (e.g. species delimitation), as well as on the study of its dynamics in the face of global changes. We conduct macroevolutionary studies on the evolution of life-history traits and the diversification of various arthropod lineages as well as ecological studies such as the modelling of ecological niches and—the investigation of interaction networks in agricultural ecosystems. .

In collaboration with the scientists of the department, you will develop research on the systematics and evolutionary biology of insect groups of agricultural relevance (pests and/or biocontrol agents) using integrative approaches combining morphological, biological, ecological and molecular data (in particular high-throughput sequencing data). The joint analysis of these data will allow the reconstruction of phylogenies at different taxonomic levels - from species complexes to (supra)-family level - in order to (i) identify species boundaries and revise taxonomic classifications; (ii) infer the history of traits involved in the adaptation of insects to their environment (for example the host range of herbivo-

rous insects or parasitoids, their climatic niche, their life cycle). Your research project should provide a better understanding of the evolutionary dynamics of the group(s) studied such as the dynamics of host shifts (or other life-history traits) to help predict evolutionary trajectories associated with the ability to switch to new hosts or to colonize new environments, the invasive potential or the extinction risk.

In your research, you will be able to draw on the expertise of scientists in your department, on a very active community in evolutionary biology in Montpellier, on the first European collection of arthropods of agricultural importance.

Training and skills

Candidates must have a PhD or equivalent.

Experience in taxonomy of terrestrial arthropods, preferably on a group of insects of agricultural importance is recommended. Knowledge of the concepts and methods associated with the analysis of molecular data (particularly high-throughput sequencing data) for phylogenetic inference is recommended. Knowledge of the analytical tools that use phylogenetic data to study the evolution of the ecological niche of the group studied would be appreciated. Contact If you do you want to know more about our lab., the CBGP, and our research activities, please contact Emmanuelle Joussetin, [emmanuelle.joussetin@inrae.fr](mailto:emmanuelle.joussetin@inrae.fr), our website is under renovation and not very informative I'm afraid

Deadline for application is the 4th of March, Application guidelines can be found there:—Open competitions for research scientists - on job profiles (CRCN)

Open competitions for research scientists - on job profiles (CRCN)

Each year, INRAE organises open competitions to recruit research scientists on permanent positions. The recruitm...

emmanuelle Joussetin <[ejoussetin@yahoo.com](mailto:ejoussetin@yahoo.com)>

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## Morton Arboretum 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.

- 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.)

- 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 research 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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## Morton Arboretum Chicago ResAssist BioinformaticsGenomicsCons

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

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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.

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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.

- 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.)
- 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 ideally between May and September, but we are flexible. We are open to remote work for at least part of the 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 research 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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## NHM London Bioinformatics

The NHM is part of the Wellcome Trust funded project to sequence the genome of every eukaryote (over 60,000 species) in the British Isles as part of the Darwin Tree of Life (DTOL, <https://www.darwintreeoflife.org/>). This presents the museum with a wonderful opportunity to combine new genome sequences with our unique collection of over 80 million specimens (including those that are hundreds or thousands of years old), state-of-the-art molecular laboratories, and scientific expertise covering nearly every type of life to unravel global biodiversity and improve our understanding on how each species has changed over hundreds of years, human impacts on the natural world, and our own food security.

You will work with the DTOL team and across the NHM (~300 scientists) to maximise their ability to use the new genomics resources with NHM samples and expertise. In addition to the researchers, you will work with Core Research Lab bioinformaticians, and NHM HPC Systems Admin staff to developing easy to use pipelines e.g. Galaxy web interface based. You will train PhD students and postdocs to use these pipelines, as well as develop bespoke bioinformatics solutions to answer biological questions.

Bioinformatics Developer and Trainer, Natural History Museum, London Full-time, fixed-term (23 months) Starting from 37,243 p/a Closing date 8th March 2021 Read more and apply: [https://careers.nhm.ac.uk/-templates/CIPHR/jobdetail\\_internal\\_1998.aspx](https://careers.nhm.ac.uk/-templates/CIPHR/jobdetail_internal_1998.aspx) Anne

Jungblut <a.jungblut@nhm.ac.uk>

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## NOAA Northwest Fisheries Conservation Biology

Job vacancy announcement for the Northwest Fisheries Science Center Conservation Biology Division in Seattle, WA. Come work with a great group of scientists in the following Programs: Ecosystem Science, Genetics and Evolution, and Mathematical Biology. Applications are due 3/1/2021. Vacancy announcement and to apply: <https://www.usajobs.gov/GetJob/ViewDetails/-592537600> Position description:

As a Supervisory Research Physical Scientist or Supervisory Research Biologist or Supervisory Research Economist (Official Title will be determined based on the qualification of the selectee), you will perform the following duties:

- Oversee the overall planning, direction, and timely execution of the Conservation Biology Division programs and provide leadership in planning/executing a multi-million-dollar annual budget and seeking additional funding to support special projects.
- Oversee the collection, processing, analysis, and management of biological, genetic, ecosystem, and economic and social science data in support of endangered species recovery plans as well as novel applications of genetics and genomics for data collection relevant to fisheries stock assessments. Prepare and review manuscripts and reports and make presentations on research findings.
- Participate with, and collaborate in, the planning and coordination of long-range program planning with other Northwest Fisheries Science Center and National Marine Fisheries Service managers and administrators to ensure that adequate plans are in place for the future operations of the Center's programs for endangered species, fisheries monitoring and data management, ecosystem-based fisheries management, and stock assessments.
- Perform the full range of supervisory duties, including evaluating work performance, recommending selections for subordinate positions, managing and monitoring Division budgets, assuring accountability, and keeping spending on target.

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Krista M. Nichols, PhD Program Manager, Genetics and Evolution Conservation Biology Division Northwest Fisheries Science Center NOAA, National Marine Fish-

eries Service 2725 Montlake Blvd E Seattle, WA 98112  
765.586.1865 (mobile)

krista.nichols@noaa.gov

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## Oklahoma State U Field Res Assist Plant Evolution

POSITION OPENING: Field Research Assistant, Plant Biology, Stillwater, OK

The Juenger Lab in the Department of Integrative Biology at the University of Texas at Austin is seeking a full time field research assistant to be based out of Oklahoma State University located in Stillwater, Oklahoma. The Juenger laboratory runs a large continental scale research program with multiple employees across several states. This position will be involved in ongoing DOE funded research exploring the genetic basis of abiotic stress tolerance, growth architecture, and biofuel characteristics of the perennial grass switchgrass (*Panicum virgatum*). The position will involve a combination of the collecting data from field experiments using established protocols, digital data organization and sharing, maintenance of plant populations in the field, and lab processing of field samples. The research assistant will communicate regularly with the project leader and other team members across the project via conference calls and online work-flow organization platforms; as well as work closely with an established laboratory at Oklahoma State University on various local site tasks. Candidates should be familiar with plant science, able to conduct field work in varying weather conditions, able to function independently and be able to communicate effectively with multiple other researchers and institutions. The position is available as soon as possible.

Applicants may view full position details and apply at:

<https://utaustin.wd1.myworkdayjobs.com/UTstaff/-job/Oklahoma/Laboratory-Research-Assistant-III—Oklahoma.R.00012041> Job Posting Title: Laboratory Research Assistant III 'V Oklahoma Location: Oklahoma State University, Stillwater, Oklahoma Hiring Department: Department of Integrative Biology Position Open To: All Applicants Weekly Scheduled Hours: 40 Earliest Start Date: Mar 01, 2021

Jason Bonnette Research Manager The Thomas Juenger Laboratory Department of Integrative Biology The University of Texas at Austin

Cell: 512-350-6166

2401 Speedway PAT 641 Austin, TX 78712

Jason Bonnette <jebonnette@utexas.edu>

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### PennStateU ResearchTech EcoEvoGenomics

The Lasky Lab within the Department of Biology in The Eberly College of Science is seeking a Research Technologist 3. The Lasky Lab uses lab and field experiments, physiology, and genomics to study how environment shapes genetic diversity of plants, with goals of learning about basic biology and informing conservation and agriculture under environmental change. Hands-on laboratory experience is preferred, with expertise in several of the following techniques: plant growth/horticulture in the field, greenhouse, and growth chamber, DNA & RNA extraction, physiology, basic genetics, data management or statistical analysis.

The successful applicant must have the ability to plan, execute, interpret, summarize, and troubleshoot independent research and collaborate effectively with members of a research team. Excellent verbal and written English communication skills are required. Include a cover letter that summarizes relevant experience and reasons for interest in the job, along with a CV that includes contact information for three references (name, position title, mailing address, telephone number, and e-mail address).

This position typically requires a Bachelor's degree or higher (Master's degree preferred) plus 7 years related experience or an equivalent combination of education and experience.

This position will require successful completion of standard background checks.

[https://psu.wd1.myworkdayjobs.com/PSU\\_Staff/job/-University-Park-Campus/Research-Technologist-3-Lasky-Lab\\_REQ\\_0000009850-1](https://psu.wd1.myworkdayjobs.com/PSU_Staff/job/-University-Park-Campus/Research-Technologist-3-Lasky-Lab_REQ_0000009850-1)

Jesse Lasky [lasky@psu.edu](mailto:lasky@psu.edu)

Department of Biology Pennsylvania State University

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

[jrl35@psu.edu](mailto:jrl35@psu.edu)

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### PeruStateC TeachingEvolution

Assistant Professor of Biology Position (tenure track) at Peru State College

<https://nscs.peopleadmin.com/postings/8293> Luke Klicka, PhD Assistant Professor of Biology Department of Natural Science 600 Hoyt Street Peru State College Peru, Nebraska 68421 [lklicka@peru.edu](mailto:lklicka@peru.edu)

Luke Klicka <[klicks87@gmail.com](mailto:klicks87@gmail.com)>

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### RENECO UAE GeneticsLabTech

Genetics Laboratory Technician, RENECO International Wildlife Consultants, UAE

We are looking for a highly motivated laboratory technician to integrate our Conservation Genetics team at RENECO. Our work involves the use of genetics in captive-breeding programmes and contributing to the conservation of wildlife.

The successful candidate will have a BTEC or Bachelor's degree in Biotechnology or related field with a minimum of 2 years of professional experience. She/he will participate to the management of the molecular laboratory (see duties below) and contribute to ongoing research projects to support RENECO's diverse conservation efforts.

Duties will include: - To apply, follow and monitor compliance of the laboratory procedures - To ensure the progression of laboratory experiments and contribute to the development of new analytical methods - To organise and manage the infrastructure, equipment, supplies and inventories - To develop routine procedures and guidelines to guarantee consistencies of the experiments and the accuracy of the data collected for the different projects - To take part in research activities and activities connected to downstream genetic analyses - To mentor routine molecular biology activities in the laboratory

Essential qualifications/skills include: - BTEC or Bachelor's degree in Biotechnology, Genetics, Molecular Biology, or related fields - Excellent understanding of best



laboratory practices in Molecular Biology - DNA/RNA isolation and management of a DNA storage system - PCR, qPCR preparation and troubleshooting - Experience with Next-Generation sequencing (including library preparation) - Ability to work independently, and as part of a team - Willingness to learn and attention to detail are essential - Proficient in Microsoft Office

This is a full-time permanent position located in Abu Dhabi (United Arab Emirates). The position is expected to start immediately. Application will be accepted until the position is filled.

Interested candidate can apply/inquire at <mailto:hr-sourcing@reneco.org>. Applications must include a one-page CV, a cover letter describing your experience and interest in the position, along with the names and contact information for at least two references.

Information on RENECO research activities can be found at: <https://www.researchgate.net/institution/-Reneco-International-Wildlife-Consultants> LESOBRE Loïc <llesobre@reneco.org>

## **RENECO UAE GeneticsLabTech Error**

Please note the HR dept email address was erroneous. Candidate should apply at [HR-Sourcing@reneco-hq.org](mailto:HR-Sourcing@reneco-hq.org)

For further information, you can contact me at [llesobre@reneco.org](mailto:llesobre@reneco.org)

Genetics Laboratory Technician,

RENECO International Wildlife Consultants, UAE

We are looking for a highly motivated laboratory technician to integrate our Conservation Genetics team at RENECO.

Our work involves the use of genetics in captive-breeding programmes and contributing to the conservation of wildlife.

The successful candidate will have a BTEC or Bachelor's degree in Biotechnology or related field with a minimum of 2 years of professional experience.

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- To organise and manage the infrastructure, equipment, supplies and inventories

- To develop routine procedures and guidelines to guarantee consistencies of the experiments and the accuracy of the data collected for the different projects

- To take part in research activities and activities connected to downstream genetic analyses

- To mentor routine molecular biology activities in the laboratory

Essential qualifications/skills include:

- BTEC or Bachelor's degree in Biotechnology, Genetics, Molecular Biology, or related fields

- Excellent understanding of best laboratory practices in Molecular Biology

- DNA/RNA isolation and management of a DNA storage system

- PCR, qPCR preparation and troubleshooting

- Experience with Next-Generation sequencing (including library preparation)

- Ability to work independently, and as part of a team

- Willingness to learn and attention to detail are essential

- Proficient in Microsoft Office

This is a full-time permanent position located in Abu Dhabi (United Arab Emirates). The position is expected to start immediately. Application will be accepted until the position is filled.

Interested candidate can apply/inquire at [HR-Sourcing@reneco-hq.org](mailto:HR-Sourcing@reneco-hq.org).

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Information on RENECO research activities can be found at:

<https://www.researchgate.net/institution/-Reneco-International-Wildlife-Consultants> LESOBRE Loïc <llesobre@reneco.org>

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## 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.

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)>

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## SanDiegoStateU Bioinformatics

San Diego State University College of Sciences, Bioinformatics and Medical Informatics Tenure-Track Assistant Professor Position in Bioinformatics

The College of Sciences at San Diego State University (SDSU) seeks to hire a tenure-track assistant professor to teach and mentor students in the Bioinformatics and Medical Informatics (BMI) program. The successful candidate will use computational analyses or modelling approaches to study biological questions. The candidate must have a PhD in a field within the Sciences related to Bioinformatics research, such as Biology, Chemistry, Computer Science, Computational Science, Mathematics or Statistics. The successful candidate is expected to develop a robust, extramurally-funded, independent research program and to teach and mentor undergraduate and graduate (M.S. and Ph.D.) students.

Position details and instructions to apply can be found at <https://apply.interfolio.com/83370>. Questions about the position may be directed to [JSCALISI@sdsu.edu](mailto:JSCALISI@sdsu.edu). SDSU is an equal opportunity/Title IX employer.

Andrew J. Bohonak Associate Dean of Graduate Studies Professor of Biology

San Diego State University Graduate Studies, MC 8220  
5500 Campanile Drive San Diego, CA 92182-8220

Email: [abohonak@sdsu.edu](mailto:abohonak@sdsu.edu) Web: <http://www.bio.sdsu.edu/pub/andy/index.html>  
Andrew Bohonak <[abohonak@sdsu.edu](mailto:abohonak@sdsu.edu)>

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## SGN Muencheberg LabHead InsectEvol

Job offer ref. #09-21001

The Senckenberg Gesellschaft für Naturforschung (SGN) is a member of the Leibniz Association and is based in Frankfurt am Main, Germany. SGN conducts natural history research with almost 800 employees and research institutions in six federal states. Within SGN, the Senckenberg German Entomological Institute (SDEI) located in Muencheberg, near Berlin, works on

systematics, biogeography and ecology of a broad range of insect groups. Senckenberg German Entomological Institute invites applications for a

Scientific employee (m/f/d) as head of the molecular lab (full time, tenure track)

Your tasks: \* Research concentrating on molecular phylogeny / taxonomy or phylogeography of insects in combination with related subjects such as evolution, molecular ecology or conservation genetics of insects \* Management / coordination of the molecular genetics laboratory \* Active acquisition of third-party funding and coordination of such projects \* Internationally visible research and publication activity \* Integration in core projects of the SDEI and SGN within the framework of research on biodiversity, concomitant with active participation in the further development of Senckenberg's profile \* Leadership and training of technical personnel, willingness to teach young scientists such as university students \* Taking over responsibility for general functions and management processes of the institute.

Your profile: \* A degree in biology/zoology or a related discipline, completed with a Ph.D. \* Experience in the use of a wide range of up-to-date genetic methods and respective software applications \* Experience in organization of a molecular lab \* International publication activity on insects, with a focus on genetic methods as analytical tools \* Willingness to participate in interdisciplinary work, including ability to successfully acquire third-party funded projects and to coordinate and successfully conclude these \* A solid knowledge of entomology, the capability of communicating this to the public, and experience with international cooperation are desired \* A good command of English. An adequate knowledge of German is firmly desired, and its rapid acquisition is expected if not already given \* Experience in the leadership and instruction of technical assistants, students and interns \* Flexibility, skills in team work, communication and organization, together with teaching abilities are called for. A high degree of engagement and sense of responsibility are essential.

What is awaiting you? \* An attractive and challenging position in a research institution of worldwide standing \* An employment that initially will be limited, but has the option to obtain tenure \* A salary that reflects the tasks and responsibilities of the position based on the collective agreement for public service in the state of Brandenburg (TV-L E 13) \* Independent work in a motivated and professional environment \* Good opportunities for further qualification, for example, support by the SDEI to acquire an adequate command of German within short time if necessary.

The Senckenberg Research Institutes support equal op-

portunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The position is suitable for part-time. The place of employment is M<sup>1</sup>ncheberg, Germany. The employer is the Senckenberg Gesellschaft f<sup>1</sup>r Naturforschung.

You would like to apply? Please send your application documents (CV, certificates and references and a letter of motivation), mentioning the reference of this job offer (ref. #09-21001) before 05 April 2021 by e-mail (attachment in a single pdf document) to: Senckenberg Gesellschaft f<sup>1</sup>r Naturforschung Senckenberganlage 25 60325 Frankfurt am Main E-Mail: [recruiting@senckenberg.de](mailto:recruiting@senckenberg.de) For more information, please contact Prof. Dr. Thomas Schmitt, [thomas.schmitt@senckenberg.de](mailto:thomas.schmitt@senckenberg.de) or + 49 33432 73698 - 3701.

- Dr. Martin Wiemers Head of Ecology Senckenberg Deutsches Entomologisches Institut Eberswalder Str. 90 15374 M<sup>1</sup>ncheberg Germany Tel. +49 33432 73698-3740 e-mail: [martin.wiemers@senckenberg.de](mailto:martin.wiemers@senckenberg.de) [www.senckenberg.de/martin-wiemers](http://www.senckenberg.de/martin-wiemers) private: Am Diebsgraben 1A 15374 M<sup>1</sup>ncheberg Germany Tel. +49 33432 734795 Mobile +49 157 85401271 Fax +49 3212 6968883 e-mail: [martin@wiemers1.de](mailto:martin@wiemers1.de)

Martin Wiemers <[martin.wiemers@univie.ac.at](mailto:martin.wiemers@univie.ac.at)>

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## UCalgary EukaryoticGenetics

The Dept. of Biological Sciences at the University of Calgary is hiring a tenure-track Assistant Professor in eukaryotic genetics.

Qualified applicants may be conducting genetic research using molecular tools in plant, animal, or fungal systems, which may focus on whole organisms, cells or tissues. Suitable research areas include genomics, molecular cell biology, host-pathogen interactions, developmental biology, evolutionary biology, neurobiology or physiology. Applicants using live-cell imaging techniques and/or genome editing tools in their research are especially encouraged to apply.

For further details and instructions on how to apply, see <https://careers.ucalgary.ca/jobs/6315426-assistant-professor-eukaryotic-genetics-department-of-biological-sciences-faculty-of-science> Jeremy Fox

Professor

University of Calgary

“jefox@ucalgary.ca” <jefox@ucalgary.ca>

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## UCalifornia Irvine ResAssist EvolutionaryEpigenomics

Specialist (junior or assistant level) in Evolutionary Epigenomics Lab

The Lee lab in the Department of Ecology and Evolutionary Biology at the University of California, Irvine invites applications for a specialist at the junior or assistant level. Our group studies the interplay between transposable elements and genome/epigenome evolution, combining population genetics, genomics, epigenomics, and chromosome biology. More information about our research interests can be found at <http://grylee.science/> Requirements for the position include:

- a B.S. in Biology or related degree
- have at least one-year independent experience with standard molecular biology techniques (e.g., DNA/RNA extractions, PCR, qPCR) in a research laboratory setting
- have experience and demonstrated ability to execute complex protocols (e.g. Next-generation sequencing library preparation, chromatin immunoprecipitation)
- Attentive to details and have strong organizing skills
- can work independently as well as collaboratively
- be comfortable working with fruit flies

Preferences will be given to candidates with experience with genomics or functional genomics.

Responsibilities of the position include

- design, optimize and execute molecular biology experiments for epigenomic and genomic studies
- maintain *Drosophila* culture and make crosses
- maintain laboratory equipment and inventory (including ordering supplies)
- assist projects of other members of the lab when necessary

The initial appointment is for at least one year with potential extension and/or renewal based on work performance and availability of funding support.

Qualified candidates should submit curriculum vitae

along with the names and contact information of three references to the following recruitment URL: <https://-recruit.ap.uci.edu/JPF06571> The University of California, Irvine is an Equal Opportunity/Affirmative Action Employer advancing inclusive excellence. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, protected veteran status, or other protected categories covered by the UC nondiscrimination policy.

Grace Yuh Chwen Lee <grylee@uci.edu>

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## UColorado Boulder TeachingEvolution

Hello colleagues,

We are searching for the following position:

The Department of Ecology and Evolutionary Biology (EBIO) at the University of Colorado, Boulder is pleased to invite applications for a full-time instructor position to develop and teach curricula primarily in our introductory courses with special consideration toward building a first year experience program for our majors and other students that we serve. We expect individuals to have demonstrable teaching experience in innovative, evidence based teaching practices in ecology and/or evolutionary biology. We seek someone who will enhance undergraduate scholarly endeavors, train students for careers in research and professional fields, create a more inclusive learning environment, communicate the significance of biology, and conduct outreach to communities beyond academia. This person will actively contribute to and provide leadership in social justice, equity, diversity and inclusion efforts in the department. Teaching responsibilities may include but are not limited to EBIO 1210/1220 General Biology, EBIO 1100 Biology and Society, and/or EBIO 1010 Quantitative Thinking.

We require a PhD in a relevant field of study that enhances the individual's ability to support EBIO students' transition to academic life at CU.

We would like you to have

- \* Minimum of 3 years of experience working with undergraduates.
- \* Experience in designing and teaching first year college courses especially for EBIO students.
- \* Demonstrated experience with innovation in first year experience programming.
- \* Demonstrated ability to track and assess the impact of a program.

The University of Colorado Boulder is committed to building a culturally diverse community of faculty, staff, and students dedicated to contributing to an inclusive campus environment. We are an Equal Opportunity employer, including veterans and individuals with disabilities.

<https://jobs.colorado.edu/jobs/JobDetail/?jobId=-28911> Stephanie Mayer, Ph.D. Senior Instructor Department of Ecology and Evolutionary Biology 334 UCB N132 Ramaley University of Colorado Boulder, CO 80309-0334

office 303-735-1341 fax 303-492-8699

Stephanie Mayer <stephanie.mayer@colorado.edu>

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## UKansas Tech Evolutionary Genetics

Assistant Researcher position in the Unckless Lab at the University of Kansas

The Department of Molecular Biosciences, University of Kansas, seeks an assistant researcher with interests and experience in molecular biology and *Drosophila* husbandry. The successful candidate will work with a research group that addresses the broad themes of host-pathogen interaction and genetic conflict using *Drosophila*. Specifically, the assistant researcher would assist with an NSF funded study of meiotic drive in *Drosophila*. The work would involve using CRISPR-Cas9 to test the role of particular genes in meiotic drive, microscopy to examine the cellular phenotype of meiotic drive and genetic and genomic work to better understand both drive and resistance to drive. The position consists of an initial 2-yr appointment beginning in late spring or early summer 2021. The start date is flexible but approximately late Spring 2021. The applicant should be extremely organized, work well with others, have a willingness to learn, and be able to participate at many levels in the laboratory.

The successful candidate should have experience in some of the molecular biology approaches listed above and would be able to develop skills in some of the other approaches. A bachelor's degree in biology or a related field is required.

The Unckless Lab studies evolutionary genetics in general with a focus on the evolution of immunity and selfish genetic elements. The University of Kansas is home to both the Department of Molecular Biosciences and the Department of Ecology and Evolutionary Biol-

ogy and members of the lab interact directly with other labs spanning biochemistry, microbiology, genetics, genomics, evolution and ecology. Lawrence, Kansas is a vibrant college town with plenty of good food, cultural events and a wonderful downtown area. The cost of living is very reasonable. We are about 45 minutes from Kansas City.

For more details including required and preferred qualifications and directions about how to apply, please visit <https://employment.ku.edu/staff/18592BR>. If you have any inquiries about the position, please contact Rob Unckless (unckless@ku.edu).

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

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

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## UMaine Dean College Natural Sciences

Position Title: Dean, College of Natural Sciences, Forestry, and Agriculture

<https://umaine.hiretouch.com/job-details?jobID=-65276&job=dean-college-of-natural-sciences-forestry-and-agriculture>

The University of Maine seeks a Dean who will provide visionary leadership to strengthen and further integrate the College's research and academic programs, which span the health, agricultural, natural science, and environmental science fields. The Dean will provide overall leadership for the College and fosters excellence in teaching, research, and service to the state.

The Dean will execute the University's commitment to diversity, discovery, and the student experience through internal and external partnerships, including by representing the College and the University to external agencies, constituents, and legislative delegations at the local, state, and federal levels. The Dean actively participates in the University's fundraising initiatives and partners with the Dean of Cooperative Extension to meet the service and educational outreach needs of Maine through Land and Sea Grant efforts. Depending on the qualifications of the successful candidate, the President may appoint the Dean to also serve as the Director of the Maine Agricultural and Forest Experiment Station.

#### Complete Announcement

The University of Maine is a community of more than 11,200 undergraduate and graduate students, and 2,500 employees located on the Orono campus and throughout the state. UMaine is the state land and sea grant university and maintains a leadership role as the System's flagship university. As a result, it is dedicated to providing excellent teaching, research, and service at the university, state, and national levels.

Further information about UMaine can be found at <https://umaine.edu/> The University of Maine offers a wide range of benefits for employees including, but not limited to, tuition benefits (employee and dependent), comprehensive insurance coverage including medical, dental, vision, life insurance, and short and long term disability as well as retirement plan options. As a former NSF ADVANCE institution, the University of Maine is committed to diversity in our workforce and to dual-career couples.

UMaine is located in beautiful Central Maine. Many employees report that a primary reason for choosing to come to UMaine is quality of life. Numerous cultural activities, excellent public schools, safe neighborhoods, high-quality medical care, little traffic, and a reasonable cost of living make the greater Bangor area a wonderful place to live.

#### \*Qualifications:\*

##### Required:

A doctorate related to the disciplines represented in the College, with credentials and experience to qualify for the rank of professor with tenure in a discipline within the College.

The ability to work effectively with a range of constituencies including the academic, business, health care, biomedical, agricultural, environmental science, natural resource, and tourism fields.

Experience with inter- and transdisciplinary research and programming.

A record of effective administrative leadership, including personnel and budget management.

Demonstrated commitment to diversity.

Demonstrated effectiveness in the acquisition of public and private resources to develop and expand strong programs.

Experience with federal agencies such as NSF, NIH, USDA (particularly NIFA, ARS, NRCS, USFS), US EPA, USGS, NOAA, and NASA.

Personal integrity.

##### Preferred:

Demonstrated accomplishments in teaching, research, and professional and public service.

Knowledge of the missions and applications of a Land Grant/Sea Grant institution and State Agricultural and/or Forest Experiment Station.

Documented ability to work effectively with both State and Federal Congressional delegations.

Experience in marketing academic programs and recruiting students.

##### Other Information:

Search Timeline is as follows:

Review of applications to begin: March 5, 2021

Screening interviews to begin no earlier than: March 19, 2021

On-site interviews to begin no earlier than: April 2, 2021

Tentative start date: July 1, 2021

For questions about the search, please contact search committee chair Dana Humphrey, Dean, College of Engineering, at [danah@maine.edu](mailto:danah@maine.edu)

José Eduardo Meireles <[jemeireles@gmail.com](mailto:jemeireles@gmail.com)>

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## UMichigan TechLabManager

The Duffy Lab in the Department of Ecology and Evolutionary Biology at the University of Michigan is searching for a technician and a lab manager. The technician and lab manager position applications will be available until Feb 26 2021. The projected start date for both

positions is June 2021 in Ann Arbor.

The responsibilities for the technician position include maintaining *Daphnia*, algae, and parasite cultures, field sampling of lakes in the Ann Arbor area, carrying out lab experiments, helping to develop and test protocols, assisting with general lab maintenance and upkeep, and organizing and maintaining protocols. This position requires an Associate's degree or higher; a Bachelor's in biology, ecology, microbiology, or environmental science is preferred.

The responsibilities for the lab manager position include many of the same responsibilities as those for the technician position, but also include working independently to analyze data, coordinating the field sampling and lab personnel, supervising hourly employees, and leading development and testing of protocols and equipment. This position requires a Bachelors degree in science with 1-3 years of experience; a Master's degree in biology, ecology, microbiology, or environmental science is preferred.

More information about both positions, including on how to apply, can be found by emailing Meghan Duffy (duffymeg at umich dot edu) or by visiting the lab's website: [duffylab.wordpress.com](http://duffylab.wordpress.com)

The University of Michigan is an equal opportunity / affirmative action employer.

Meghan Duffy <[duffymeg@umich.edu](mailto:duffymeg@umich.edu)>

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## UNorthCarolina Asheville InvertebrateEvolution

<https://jobs.unca.edu/postings/4628> The University of North Carolina Asheville Department of Biology invites applications for a University Fellow for Faculty Diversity in to begin Fall 2021.

The Department of Biology at the University of North Carolina Asheville, the UNC system's designated public liberal arts institution, is seeking qualified applicants with expertise in entomology or invertebrate biology for a University Fellow for Faculty Diversity position that will begin in the fall semester of 2021. The Department is interested in expanding its opportunities for undergraduate research to include answering behavioral, evolutionary, or ecological questions using modern analytical approaches such as bioinformatics, molecular systematics, developmental, quantitative, or computational biology.

The candidate will be expected to teach 12 contact hours per semester (with some release time given to establish their teaching and research programs as described below); establish a research program that involves undergraduates; and engage in service to the institution, the community and the profession. Teaching duties will include contributions to our introductory courses in zoology and experimental design, and possibly cellular and molecular biology, experience with R is preferred. Additionally, they will develop additional upper-level courses within the candidate's area of expertise, which may include existing courses such as Entomology, Invertebrate Zoology, and Parasitology, as well as new courses not currently listed in the catalog. Opportunities also exist for developing courses outside of the department that contribute to the liberal arts core curriculum. Individuals with a passion for undergraduate teaching, and experience at an institution focused on the liberal arts are strongly encouraged to apply.

University Fellows will have a lightened teaching load, extensive mentorship, and support for the development of their pedagogy and scholarship. The term of appointment is 2 (post doc) to 3 (pre doc) years. Following this term, the University Fellow may be offered a tenure-track position in the Department. Additional information about the University Fellowship program may be found at this link:

<https://academicaffairs.unca.edu/faculty-openings/-university-fellowship-for-faculty-diversity/> . Applicants should submit the following electronically at <https://jobs.unca.edu>: (1) Cover Letter addressing your interest in this position and how you are best suited for this faculty role. Please include your teaching philosophy, a description of your scholarly interests and the ways in which you engage or contribute to the evolution of your discipline and how your approach to teaching and scholarship align with the values of UNC Asheville.

(2) Curriculum Vitae (3) Diversity Statement: 1-2 pages describing: (a) your experience in advancing diversity in teaching, scholarship and/or service; (b) examples of demonstrated leadership potential in the area of equity and inclusion; and (c) your understanding of the importance of diversity and inclusion to the mission of a liberal arts university.

(4) References: Names and contact information for three references from whom we will request letters of reference to be sent separately; these references should address your written, verbal and interpersonal skills; ability to teach and mentor undergraduate students; and potential to develop and maintain a successful research program.

Review of applications will begin on March 1, 2021 and continue until the position is filled. Inquiries should be

directed to Jonathan Horton (jhorton@unca.edu, 828-232-5152).

UNC Asheville is one of the nation's top public liberal arts & sciences colleges with a deep commitment to teaching. We are the only designated liberal arts institution in the North Carolina university system and are the founders of the National Conference on Undergraduate Research. We offer an extraordinary liberal arts education at an incredibly affordable rate (tuition is under \$7500 per year for in-state students), all in the beautiful mountain town of Asheville, NC.

Thanks, Graham

R. Graham Reynolds, Ph.D.

Associate Professor of Biology, University of North Carolina Asheville Associate, Museum of Comparative Zoology, Harvard University National Geographic Explorer

<https://www.caribbeanboas.org>

[www.silverboa.org](https://www.silverboa.org)

robertreynolds@fas.harvard.edu

<https://greynold@unca.edu>

greynold@unca.edu;

The Biology Department recognizes the historic and contemporary policies and practices that created and sustain racial inequities. We applaud and

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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>

## UOtago EvolutionaryBioinformatics

The Dept. of Zoology at the University of Otago (New Zealand) is hiring a tenure-track Lecturer in Evolutionary Biology (Bioinformatics).

We are seeking a person with a relevant doctorate, and demonstrated potential to develop as an outstanding researcher and teacher in evolutionary bioinformatics in the Department of Zoology. The position affords an exciting opportunity for an emerging scholar to research and teach in a vibrant and diverse Department. The successful candidate will develop a transformative and collaborative research program, supporting the university's commitment to excellence in research.

Your skills and experience - A PhD with a background in analysis of high-throughput sequencing data and

evolutionary biology. - Familiarity with a range of bioinformatics skills, concepts, and practices as they relate to the biology of animals, including genomic, transcriptomic and metabarcoding data analyses. - A strong interest, and experience, in research and teaching of bioinformatics and evolutionary genomics. - An ability to contribute to teaching and learning environments that support engagement of students and staff with bioinformatics and genomics. - Be committed to and or have established connections or track record of working with national and local bioinformaticians. - Be committed to being a productive collaborator with a track record of working collegially.

Further details Please apply here: Lecturer in Evolutionary Biology <<https://apc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fotago.taleo.net%2Fcareersection%2F2%2Fjobdetail.ftl%3Flang%3Den%26job%3D2100342&data%7C01%7Cjon.waters%40otago.ac.nz%7Cb5afd2a2509647cc807708d8d2032a58%7C0225efc578fe4928b1579ef24809e9ba%7C1%7C0%7C637490258411121609%7C>

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This is a confirmation-path (tenure track) position at the level of Lecturer. The successful candidate is expected to take up duties by 1 July 2021.

Specific enquiries may be directed to Professor Jonathan Waters (jon.waters@otago.ac.nz)

Applications close on Sunday, 14 March 2021.

Jonathan Waters <jon.waters@otago.ac.nz>

Jonathan Waters <jon.waters@otago.ac.nz>

## UppsalaU Sweden BioinformaticianGenomics

Dear all,

The bioinformatics platform (NBIS) at SciLifeLab is looking for a new expert to join the organisation in Uppsala, Sweden. The position focuses on giving support to Swedish researchers in bioinformatics, and could dependent on the competences of the applicant involve many different types of analyses. We think experience with non-model organisms and areas such as genome annotation or population genomics will be beneficial for this position, but most of all we want to find the right person



for the organisation. Solid experience in sequence-based bioinformatics and good technical competence is more important than experience from a specific type of analysis.

NBIS is one of the larger bioinformatics infrastructures in Europe, with over 100 experts employed. To be a support expert in NBIS means being involved in exciting research projects together with researchers from all over Sweden. The variety of projects encountered will give you ample opportunity to learn and expand your competence into new areas, all with the support of your fellow experts.

The position is permanent with a 6 month trial period, and deadline is Mar 22.

Please see here for more information and how to register: <https://www.uu.se/en/about-uu/join-us/details/?positionId=381399> You are very welcome to contact [henrik.lantz@nbis.se](mailto:henrik.lantz@nbis.se) if you have any questions!

Best regards, Henrik

Henrik Lantz Support manager, NBIS Uppsala, Sweden

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

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## UWinnipeg EvoDevo

<https://www.northstarats.com/University-of-Winnipeg/Tenure-Track-Assistant-Professor-in-Developmental-Biology-or-Cell-Biology-Department-of-Biology/58117> < <https://www.northstarats.com/University-of-Winnipeg/Tenure-Track-Assistant-Professor-in-Developmental-Biology-or-Cell-Biology-Department-of-Biology/58117> >

Tenure-Track Assistant Professor in Developmental Biology or Cell Biology, Department of Biology - University of Winnipeg < <https://www.northstarats.com/University-of-Winnipeg/Tenure-Track-Assistant-Professor-in-Developmental-Biology-or-Cell-Biology-Department-of-Biology/58117> > [www.northstarats.com](http://www.northstarats.com)  
Sara V. Good, Associate Professor, Dept of Biology,

University of Winnipeg Adjunct Professor, Dept of Biology, University of Manitoba Research Collaborator, The Hospital for Sick Children, Toronto, Ontario.

Tel: +1-(204)-960-4249 (cell)

+1 (204) - 786-9434 (work)

lab webpage: [www.saragoodlab.com](http://www.saragoodlab.com) [https://www.researchgate.net/profile/Sara\\_Good](https://www.researchgate.net/profile/Sara_Good) Sara Good <[s.good@uwinnipeg.ca](mailto:s.good@uwinnipeg.ca)>

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## UWisconsin Madison Evolutionary Genomics Lab Positions

The research group of John Pool at the University of Wisconsin - Madison invites applications for two scientific staff positions. The Pool Lab has a longstanding emphasis on the Genetic Architecture of Adaptive Evolution and emerging research on the Genetics of Early-Stage Reproductive Isolation as well as the Relationship between Genetic Diversity and Adaptive Potential. Our research group was founded 9 years ago and currently includes 1 postdoc and 6 graduate students. Further lab info: <http://www.johnpool.net> Researcher - Bioinformatics <https://jobs.hr.wisc.edu/en-us/job/508345-researcher-bioinformatics> The evolutionary genomics lab of John Pool in the Laboratory of Genetics is searching for a researcher (full or part time) with a background in computational biology who will analyze next generation sequencing data, assist in polishing and distributing lab-created genomic data analysis tools, and broadly contribute to our lab's computationally-intensive biological research. We are looking to add an independent yet collaborative colleague with strong multitasking and organizational skills to our vibrant lab community. We would welcome your application or inquiry!

Research Specialist / Lab Technician <https://jobs.hr.wisc.edu/en-us/job/508344/research-specialist> The evolutionary genomics lab of John Pool in the Laboratory of Genetics is searching for a research specialist (full or part time) who will help us generate next generation sequencing data, perform Drosophila fly experiments, and keep our molecular lab running smoothly. We are looking to add an independent yet collaborative colleague with strong multitasking and organizational skills to our vibrant lab community. Entry-level and more experienced candidates are both encouraged to apply.

UW-Madison offers a superb scientific environment

with a supportive, collaborative, and egalitarian culture. Many labs focus on population genetics, evolutionary genomics, and Drosophila research: <https://evolution.wisc.edu/people/faculty/> <https://genetics.wisc.edu/drosophila-and-other-insects/> Madison offers an exceptional quality of life in a beautiful landscape, and has been ranked as the best US city for young adults. Downtown and campus are bordered by lakes, and Madison features diverse art, music, cultural, and culinary offerings. <http://www.visitmadison.com/media/rankings/> I am highly interested in adding to the diversity of our lab in a broad sense, including gender balance, cultural perspectives, and intellectual backgrounds and skill sets.

Please see the links above for further information about these positions.

John E Pool <jpool@wisc.edu>

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### UWyoming LabTech EvolutionaryPhysio

University of Wyoming: Laboratory Technician

The Nelson (<https://www.nelsonlabuwyo.com>) and Bedford laboratories in the Zoology and Physiology Department and the Sensory Biology Center are seeking to hire a laboratory technician to assist with the organization and management of a molecular neurobiology research group. As a full-time staff member, you will assist undergraduate and graduate students on the development of projects related to animal behavior, neuroscience, and the evolution of neural circuits controlling innate behavior.

You will help oversee the group's animal colony, equipment, and reagent inventories. Tasks might include animal cranial surgery and dissection, histology, animal husbandry, genotyping, organizing laboratory space, and curating behavioral and physiological data. This position is suitable for those seeking additional research experience before applying to graduate school or other careers in research.

A minimum two-year commitment is strongly encouraged. We are looking for candidates that are energetic, organized, and have an interest in behavioral ecology, molecular neurobiology, or evolution. Experience in working with rodent models, molecular biology, and/or bioinformatics is preferred but not required.

The starting salary is approximately \$40,000/year with

benefits, depending on the candidate's prior job experience and educational training. The start date is flexible, but ideally the successful candidate would begin between April 2021 and June 2021.

Minimum qualifications for this position include a Bachelor's degree in Biology, Neuroscience, Physiology, Zoology, or related field, a demonstrated knowledge of either neuroscience or animal behavior, and excellent organizational skills and attention to detail. Desired qualifications include research experience with rodents and knowledge of molecular biology techniques. Required application materials include a cover Letter, Resume/CV, and contact information for three references.

Inquiries about the position should be sent to Drs Adam Nelson (anelso74@uwyo.edu) and Nicole Bedford (bedford@hms.harvard.edu). Applications can be submitted online at <https://uwyo.taleo.net/careersection/00.ex/-jobdetail.ftl?job=21000277&lang=en> UW is an Affirmative Action/Equal Opportunity Educator and Employer. We are committed to a multicultural environment and strongly encourage applications from women, minorities, veterans and persons with disabilities.

The University of Wyoming is located in Laramie, a town of 30,000 in the heart of the Rocky Mountain West. In a high mountain valley near the Colorado border, Laramie offers both outstanding recreational opportunities and close proximity to Colorado's Front Range, including Denver and Fort Collins. This beautiful mountain landscape offers outdoor enjoyment in all seasons, with over 300 days of sunshine annually (see <http://visitolaramie.org/>). Together with the University of Wyoming's state-of-the-art research facilities, Laramie provides a terrific opportunity to conduct cutting edge research while living in a small, affordable, and vibrant community.

"Adam C. Nelson" <anelso74@uwyo.edu>

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### WestShoreCC Michigan TeachingEvolution

WestShoreCC.TeachingAnatomyZoology

Biology Faculty West Shore Community College seeks innovative candidates to fill a full-time Biology Faculty position (with potential for continuing appointment and full professor rank) for the 2021-2022 academic year, August 2021 start date. We are seeking a candidate especially with experience in human anatomy & phys-

iology and microbiology whose primary career goal is education, with the potential for offering courses in animal biology.

Responsibilities may include but are not limited to the following: - Teaching load (15 contact credit hours a semester/30 annually) primarily consisting of courses in the following areas: anatomy and physiology, microbiology, zoology, and human prosection.

- Develop and teach anatomy and physiology lectures and labs with an emphasis in preparing students for medically related fields. The ideal candidate will be able to function in either face to face or online teaching modalities.
- Maintain and utilize our human cadaver laboratory facility.
- Participate in planning, curricular review, and assessment.
- Participate in professional growth activities and continuous awareness of new trends and developments in the areas of instructional responsibility.
- Collaborate with faculty, staff, and community in accordance with the core values of West Shore Community College.
- Meet other contractual obligations as spelled out in the West Shore Community College Instructional Agreement.

Required Qualifications - Masters in Biology, Physiology, Animal Science, or a related field.

- Minimum of 18 graduate credits in Anatomy, Physiology & Microbiology
- Higher education teaching experience in Biology.
- Ability to teach using a variety of educational technologies, such as on-line teaching and HYFLEX teaching.
- Demonstrated commitment to the comprehensive community college philosophy, including building relationships in science and related disciplines with K-12 schools and the community.

Desired Qualifications - Ph.D. in Biology.

- Demonstrated success in teaching/developing on-line or blended/hybrid courses.
- Community College teaching experience.
- Proven ability to work with and teach students from diverse backgrounds, particularly those heading for a career in a medically related field.

Salary range: \$46,656- \$88,040, commensurate with qualifications/experience. Salary is accompanied by a complete benefit package.

West Shore Community College is a small, rural institution located in a beautiful ???four-season??? recreational area near the shore of Lake Michigan and serves a multi-county district. The College is uniquely positioned with beautiful facilities; modern technology and teaching tools; and no debt. West Shore Community College offers a comprehensive general education curriculum designed to meet the needs of students seeking certification, employment, and/or transfer to senior institutions. WSCC offers a student centered and team-based atmosphere with a staff dedicated to excellence in serving students ???learning needs. Collegial and interdisciplinary relationships are expected of all WSCC employees.

Visit our website at <http://www.westshore.edu> for more information.

Application requirements: For best consideration submit the following materials by March 19, to our online portal at <https://my.westshore.edu/ICS/Employment/>. Initial screening begins immediately and will continue until the position is filled: - West Shore Community College application - Letter of application specifically addressing the areas of responsibility and qualifications (above) - Resume - Unofficial transcripts (official will be necessary if interview is offered) West Shore Community College is a drug-free employer and the final offer will be contingent on drug testing.

West Shore Community College is an equal opportunity employer.

Paul Bilinski, PhD Professor of Biology West Shore Community College 3000 N Stiles Rd Scottville MI 49431

[pbilinski@westshore.edu](mailto:pbilinski@westshore.edu)

“Bilinski, Paul” <[pbilinski@westshore.edu](mailto:pbilinski@westshore.edu)>

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## WoodsHole ResAssist MarineGenomics

Woods Hole Oceanographic Institution is currently searching for a Research Assistant to join the Biology Department. This is a regular, full-time, exempt position, and is eligible for full benefits.

The Alexander and Tepolt labs at WHOI are seeking a motivated individual with prior laboratory experience to support genetic research in marine systems as a technician. The Alexander lab studies the biogeochemi-

cal functioning and physiological ecology of eukaryotic plankton, and the Tepolt lab studies population genetics and rapid adaptation in marine invertebrates. Time will be split between these two labs, and the technician will be a full and participating member of both lab groups. We will train the right candidate on specific lab protocols, but the position requires some prior experience and comfort with general molecular biology techniques (e.g. pipetting, PCR, etc.). This position is primarily lab-based and is ideal for a candidate who wishes to gain experience in the application of advanced genetic and molecular approaches to the study of marine organisms and ocean ecosystems.

This is a one-year position with a mutual option for a second year; the position may be extended beyond two years depending on funding availability. Anticipated start date is April 2021. Interested candidates should apply online only and should not contact the PIs directly about this position. Please include a cover letter, complete curriculum vitae, and the names and contact information for at least three references with your application. Applications will be reviewed immediately and must be submitted no later than March 5, 2021 to ensure full consideration.

The internal working title for this position could be either Research Assistant I or Research Assistant II. The final level of the position will be determined commensurate with the selected candidate's level of education & experience.

Essential Functions \* Genetic sample collection and preparation, which includes dissections of invertebrates (crabs and shellfish, primarily) and likely some fish. \* Detailed molecular biology protocols including DNA and RNA extraction, PCR and gel electrophoresis, Nanopore sequencing, and preparation of samples for transcriptome and genome sequencing and genotyping \* Good troubleshooting skills, effective time management, attention to detail, ability to work independently \* Basic laboratory maintenance, including ordering, equipment maintenance, and algal culture \* Basic computer literacy with both Mac and Windows operating systems

Desired education & experience \* A Bachelor's degree in Biology or a related field (Chemistry, Biochemistry, etc.) \* Experience with genetic benchwork \* Excellent communication, critical thinking, time management, and organizational skills

Full posting here: <https://careers-whoicims.com/jobs/1395/research-assistant/job> Carolyn Tepolt <carolyn.tepolt@gmail.com>

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## YaleU ResAssist PhageTherapy

Research Assistant 2, Laboratory of Paul Turner, Yale University

**Job Description:** The research group of Paul Turner in the Department of Ecology and Evolutionary Biology at Yale University is seeking to hire a fulltime Research Assistant 2, who will provide technical support of general lab projects and phage therapy pre-clinical studies. The position is for one year, with possibility of renewal for a second year. Our lab is developing phages as alternative therapies for treating infections caused by antibiotic-resistant bacterial pathogens. The incumbent will participate in our efforts in characterizing the leading phage strains and conducting bacteriology studies that bridge basic and applied research.

The incumbent will be responsible for performing basic molecular techniques (DNA and RNA extraction, PCR, qPCR preparation of samples for sequencing); basic microbiology methods (preparation of growth media, culturing of bacteria and phages); phenotypic measures of bacteria growth in batch culture and using a microplate reader; measures of phage growth (burst assays; adsorption assays); and organizing and curating lab stocks (libraries) of bacteria and phages in our collections. After learning these methods, the incumbent may oversee the training of undergraduate and graduate rotation students new to the group, to help prepare them for mentored research projects led by other lab members. The incumbent will also oversee the ordering of reagents/supplies, as well as general maintenance, organization and safety of all projects in the lab, including projects conducted in tissue culture using viruses of eukaryotes.

**Essential Duties:**

1. Researches and collects data through complex laboratory/scientific experiments, techniques, and procedures; library research; structured interviews; or through other means for research projects. Interprets, synthesizes, and analyzes data using scientific or statistical techniques.
2. Modifies and plans research experiments, procedures, tests, or survey instruments. Assists in research design. Writes and edits material for publication and presentation. Reports on status of research activities.
3. Oversees and instructs research and support staff on technical procedures, equipment operation, and laboratory maintenance. Schedules and coordinates

research activities. Sets up, operates, and maintains laboratory equipment and apparatus. Modifies equipment according to experimental specifications. 4. Orders and maintains inventory of supplies. May monitor hazardous work areas and laboratory safety. Prepares related reports. May prepare financial information and monitor budgets. 5. Performs additional functions incidental to research activities.

**Required Education and Experience:**

Two years of related work experience in the same job family and a Bachelor’s degree in a related field; or an equivalent combination of experience and education.

**Required Skill/Ability 1:**

Basic competence with molecular techniques (DNA and RNA extraction, PCR, qPCR preparation of samples for sequencing) and bacteriology methods (preparation of growth media, culturing of bacteria in the lab).

**Required Skill/Ability 2:**

Highly-organized and self-directed, with the ability to work independently and efficiently. Demonstrated ability to also work in a team.

**Required Skill/Ability 3:**

High degree of reliability and attention to details.

**Required Skill/Ability 4:**

Strong English-language written communication skills, needed when sending emails to the lab group.

**Preferred Education, Experience and Skills:**

Experience in working with phages and/or biosafety level 2+ (BSL2) bacterial pathogens(plaquing and purification of phages).

For inquiries: paul.turner@yale.edu

To apply: <https://sjobs.brassring.com/TGnewUI/-Search/Home/Home?partnerid=25053&siteid=-5248#jobDetails=1449221.5248> “Turner, Paul” <paul.turner@yale.edu>

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## AcademicSuccess STEM survey

Subject/Title: Please give back to your scientific community - Call for participants - Feb. 4, 4:00 pm Eastern time

Dear colleagues,

We are currently conducting a research project on academic success in STEM fields.

We are seeking your help to take part in a 7-minute study (5 minutes if you work fast). You will be asked to share with us your beliefs and opinions about your discipline.

Here is a link to the online survey: [https://uwmadison.co1.qualtrics.com/jfe/form/-SV\\_9pC1Cm8CYEA21UN](https://uwmadison.co1.qualtrics.com/jfe/form/-SV_9pC1Cm8CYEA21UN). The study opens on February 4 at 4:00 pm Eastern time (3:00 pm CST, 2:00 pm MST, 1:00 pm PST).

Please give back to your scientific community by taking part in the study which will provide important insights for promoting academic success of graduate students and assistant professors.

To show our appreciation you will be given the opportunity to enter your name in a lottery for gift certificates after you complete the study. Here is a description of the prizes:

- Five \$200 gift certificates among the first 50 respondents
- Twenty \$50 gift certificates among the next 200 respondents

The order of respondents will be determined by the time they start their participation (start and completion times will be recorded). Once you start the survey, you have 20 minutes to complete it if you want to enter your name in the lottery. This project has obtained IRB approval (Protocol #: 2020-1336) and is partially funded by NSF Grant 1911284. There are no right or wrong answers. All responses are anonymous.

Feel free to use the following links to put a reminder in your electronic calendar:

Google calendar: Click here <https://calendar.google.com/event?action=TEMPLATE&tmeid=N2FmMm92cmY3ZWxsMHA1djg0M3E1azBvMzcgZ2lsbW9yZXVabQ&tmsrc=gilmoreu%40gmail.com>

Outlook calendar (.ics): Click here <https://uwprod-my.sharepoint.com/:u:/g/personal/-moreu-wisc.edu/EYwUgTbYs65OrEPBpbDtMaYBpTCQI1jtkrec8uH88WVB-g?e=Zr3tTb>

Thank you for your cooperation. Best wishes,

– Markus Brauer and Jo Handelsman University of Wisconsin-Madison

< <http://crsl4.github.io/> >

Claudia Solis Lemus <solislemus@wisc.edu>

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## ArizonaStateU SummerREU MammalianGenomics

We are seeking 2-4 undergraduate students to virtually join our lab for Research Experiences for Undergraduates (REU) positions in the summer of 2021 (June 14-August 20, 2021). The positions are supported through the National Science Foundation (NSF) and participants will receive a \$4000 stipend, and will be expected to participate part-time (20hr/week). Because the position is virtual, there is no limit on the geographical location of the student, however, due to our funding source, we are limited to individuals who are U.S. citizens, U.S. nationals, or permanent residents of the United States and students who have not yet graduated from their undergraduate institution.

REU students will collaborate with our lab members to complete research projects in computational genetics. Potential projects center around using genomics as a tool to understand mammalian health and evolution. Our lab primarily studies dogs and monkeys. The only expectation we have for the incoming student-researchers is to have some familiarity with genetics (e.g. an undergraduate genetics course). Students will receive mentoring as they learn the computational biological skills (including coding with command line and R) to analyze molecular data from non-human primates or dogs, as well as the communication and data visualization skills to present their findings to colleagues. More details about on-going projects in the Snyder-Mackler (SMack) lab can be found on our website. As research < <https://smack-lab.com/research/> > and publications < <https://smack-lab.com/publications/> > pages.

The SMack lab is committed to maintaining and further developing an equitable and inclusive research environment and we welcome students from all backgrounds to apply. We are seeking passionate, enthusiastic undergraduates to join us for this opportunity. No prior research experience required!

If interested, please submit this application < [https://docs.google.com/forms/d/1yiNEIAUYmx\\_nytQnjnt6H-](https://docs.google.com/forms/d/1yiNEIAUYmx_nytQnjnt6H-)

8mMIOr5xoxzV7Hvg3iO8Q > by February 28, 2021. Feel free to email the principal investigator (PI)/faculty member at the head of this recruitment, Dr. Noah Snyder-Mackler (nsnyderm@asu.edu) with any questions.

– Noah Snyder-Mackler Assistant Professor School of Life Sciences Center for Evolution and Medicine Arizona State University 214 Life Sciences C <http://smack-lab.com/> 480-965-0693 Co-director, Simien Mountains Gelada Research Project <https://geladaresearch.org/>

Please join me and my family in our fight against ALS write to me or log on to: The ALS Association of Philadelphia < <http://www.alsphiladelphia.org/-assistive-technology> >

Noah Snyder-Mackler <nsmack@gmail.com>

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## CaliforniaDFA SummerREU SexualSelection

**SUMMER RESEARCH EXPERIENCE FOR UNDERGRADUATES ON SEXUAL SELECTION IN INSECTS:** This REU is funded by the National Science Foundation and provides a 10-week paid research opportunity for students to engage in evolutionary ecology research with insects in California.

**WHEN:** 11 June 2021 to 20 August 2021

**RESEARCH TOPIC:** Reproductive trade-offs between costly sexually selected weapons and other expensive tissues in three species of Coreoidea (Insecta: Hemiptera) In many species, males engage in competitive behaviors with weapons for access to high-quality territories and mates. However, weapons may be costly to develop and maintain and likely compete with other traits for limited resources. Furthermore, when females mate with multiple males, investing resources in weapons may not significantly increase reproductive success. In such cases, males may invest more resources in reproductive tissues, such as testes size, to compete with sperm from other males in the female reproductive tract. Leaf-footed bugs (Hemiptera: Coreoidea) have become a model in studying trade-offs between weapons and testes. Males in several species use their hind legs as weapons, which they can naturally self-amputate (autotomy) when they are injured or to escape predators or a bad molt. If a male were to lose a weapon, would he be able to reallocate resources towards increased testes growth? Would the loss of a hind leg also trade-off with other expensive tissues, like flight muscles? What happens in species

that have hind legs that are not used as weapons? This study seeks to answer these questions in three species of leaf-footed bugs, which is part of a larger comparative study analyzing trade-offs between weapons and testes across the family.

**QUALIFICATIONS & RESPONSIBILITIES.** We are seeking three undergraduate students that are committed, reliable, independent, and team-oriented with a positive attitude and great work ethic to conduct this study. Some previous research experience and coursework in biology are preferred, but no formal experience with insects or insect science is required. Only US citizens and permanent residents enrolled in an undergraduate degree program and that will not graduate prior to the completion of the REU will be considered. Students must: 1) be comfortable handling live and dead insects, 2) be able to conduct fieldwork in very hot and dry conditions, 3) be extremely detail-oriented, 4) take initiative in learning the study organism and research project, 5) understand what needs to be done and complete tasks with maximal effort, 6) be able to perform frequent computer-based work and fieldwork, 7) exhibit exceptional note-taking and organizational skills, and 8) be independent once trained. Students will be trained in fieldwork, insect husbandry, rearing, autotomy, imaging, dissections, and measurements. Students will also be required to dedicate part of their weekly research hours to one-hour lab meetings per week, attend weekly virtual science seminars at affiliated institutions, and present a summary of project findings or primary scientific literature towards the end of the REU.

**RESEARCH TEAM.** Drs. Michael Forthman and Christine W. Miller are committed to excellence in the mentoring of undergraduate researchers. We have collectively mentored over 150 undergraduates in the past twelve years. Undergraduate students have authored peer-reviewed publications, presented at local and national meetings, and won local and national awards. The successful applicants will work with the research team throughout the REU. Please visit [www.millerlab.net](http://www.millerlab.net) and [mforthman.weebly.com](http://mforthman.weebly.com) for more information on the research team.

**APPLICATION DEADLINE IS MARCH 15, 2021.** Interested applicants should submit a CV or resume, unofficial transcripts, contact information for two references, and a 500-word (or less) statement of interest to Dr. Michael Forthman ([michael.forthman@cdfa.ca.gov](mailto:michael.forthman@cdfa.ca.gov)). It is advised that these documents are submitted as a single PDF.

**COVID-19 AND TRAVEL DISCLAIMER.** Due to the continued threat of COVID-19 and evolving safety guidance, this REU required a change in project location

and budget. As a result of this, airfare for students to travel to/from California from outside the state will not be covered under REU grant funds. However, a competitive stipend is available per student, and local, project-related travel within California will be covered by the REU grant funds. Furthermore, local, state, and federal COVID-19 guidance will be followed, and successful applicants traveling from outside California may be required or asked to quarantine in California approximately 10 to 14 days (subject to change based on future safety guidance) prior to the start of the REU project.

– Michael Forthman, Ph.D. Associate Insect Biosystematist Plant Pest Diagnostics Branch California Department of Food & Agriculture 3294 Meadowview Road Sacramento, California 916.738.6672

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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>

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)>

## ESEB Outreach Initiative Fund Deadline Mar 15

\*\*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.

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

## Funding Opportunity Human Heterogeneity

Hello,

If you or someone you know is involved in studying genetic heterogeneity in humans (or wants to be!), please see this RFP < <http://www.ring14.org/eng/250/home/842/call-for-research-grant-application-2021/> > (URL below) as appropriate. I'm a dad on Ring 14 Scientific Advisory Board (SAB) so can try to answer questions, but more importantly my wife Yssa likely knows the answers as she is a leader in this international organization (e.g., immediate Past-President). There are world-class scientists involved with Ring14 (Pietro De Camilli, Tony Wynshaw-Boris, Stylianos Antonarakis, Phil Heiter, Giovanni Neri.), and personal biases aside, this is a great opportunity especially for an early career researcher interested in topics like genetic heterogeneity.

Thanks,

Andrew DeWoody Purdue University

<http://www.ring14.org/eng/250/home/842/call-for-research-grant-application-2021/> Subject: Ring14 Call in 2021



Dear SAB members, I hope to find you well.

The Ring14 managing board has just decided to extend the deadlines to March 31st: you can find any relevant info and docs here < <http://www.ring14.org/eng/250/-home/842/call-for-research-grant-application-2021/> >. I hope you can help us to promote our Call and to circulate it among your contacts possibly interested in applying.

Thank you so much for your continuing support and please do not hesitate to contact me for any need.

All my best, Marco

Marco Crimi, PhD Scientific Coordinator

Email: [crimi.marco@ring14.org](mailto:crimi.marco@ring14.org)

ORCID: 0000-0001-6903-9163

ResearcherID: A-4032-2008 LinkedIn < <https://it.linkedin.com/in/marco-crimi-aa90868> > Skype: marco.crimi

Ring14 International Via Gioia 5 42124 Reggio Emilia (Italy)

[www.ring14.org](http://www.ring14.org) In-Reply-To: <20210211022803.GB2012@helix.biology.mcmaster.ca>

DeWoody, James Andrew“ <[dewoody@purdue.edu](mailto:dewoody@purdue.edu)>

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## JagiellonianU UppdalaU FieldAssist WildBirds

We are looking for motivated expenses-paid field assistants to join our team for another field seasons in the wild blue tit & collared flycatcher population on the island of Gotland (Sweden) for the coming spring. The Gotland population has been studied for over 40 years and is one of the longest running wild bird population study in the world.

What we offer? You will join the team of several researchers from Poland and Sweden and contribute to the day-to-day tasks and procedures during the fieldwork on the island. We offer covering all fieldwork-related expenses (reasonable travel expenses; accommodation - in a big nice house close to the study plots in rooms shared with one or max 2 assistants; per-diems to cover food expenses) and participation in an exciting project in a beautiful and isolated place. Gotland is a perfect birdwatching spot, offering lots of after-work birding opportunities. It also is home to one of Sweden's most profiling bird ringing stations. The house we use as

our base is equipped with a kitchen, all amenities, fast internet connection, laundry and a big garden.

Who do we look for? Ideally you should have prior experience with fieldwork, best if involving wild birds. The fieldwork on Gotland involves, among other things, catching adult birds using mist-nets and nest-traps, ringing adults and nestlings, basic morphological measurements, blood-sampling using well-established protocol widely used in ecological studies. You should be prepared to work several hours a day, with long-hours work during peaks of the breeding seasons (when chicks hatch and when adults are being caught). Gotland is usually quite gentle in terms of weather, with many sunny days - but variable weather should also be expected. Preferably, you should have a driving licence - the study areas are spread over the distance of about 10-15 km, and we usually visit them using rented cars (or in case of closer plots using bikes).

Current projects involve two species (blue tits and collared flycatchers) with a separate team from France working on great tits. The birds nest in wooden nest-boxes that are easily accessible (no need to carry a ladder).

Timing: the fieldwork starts around the 20th of April, and this is the starting date of our offered positions. We can also accept later arrivals, but earlier ones will be prioritised. The fieldwork usually runs until last weeks of June.

COVID measures: the situation in Europe is unpredictable and so the circumstances may change on a day-by-day basis. The current situation is that we are confident the field season will start as planned, but we cannot promise anything should the situation in Europe and/or in Sweden change. Currently, it is likely that you will have to test yourself for COVID19 before entering Sweden - probably just before departure from your home location. When applying, please take into account any restrictions your location may have in terms of travelling to the European Union. The firework site itself is COVID-safe, it is an isolated small village with little/no touristic activity in early spring.

If you are interested in joining us please contact Dr Szymon Drobnik ([szymek.drobnik@gmail.com](mailto:szymek.drobnik@gmail.com)) with your brief CV outlining your previous experience and education. Also, please include a name and contact details of one referee. The call will remain open until we have filled all positions (which will likely happen before the end of March, to leave plenty of time for university formalities). Please contact us at the same address if you have any questions.

Szymek Drobnik <[geralttee@gmail.com](mailto:geralttee@gmail.com)>

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## LinneSys Systematics Research Fund Deadline Feb 15

Dear all,

The Linnean Society (<https://www.linnean.org/>) and the Systematics Association (<http://www.systass.org/>) jointly administer the LinnéSys: Systematics Research Fund that provides grants annually for small-scale research projects in the field of systematics.

The Systematics Research Fund has been renamed to the LinnéSys: Systematics Research Fund.

Typical activities supported include contributions to fieldwork expenditure, the purchase of scientific equipment or expertise (e.g. buying time on analytical equipment), specimen preparation (including the cost of temporary technical assistance), and contributions to publication costs. However, please note that it is unable to fund the cost of article publication charges. Projects of a more general or educational nature will also be considered, provided that they include a strong systematics component. Typical activities not supported include attendance at scientific meetings and contributions to student maintenance or tuition fees. The fund does not provide payments for Bench Fees. Projects already substantially funded by other bodies may be disadvantaged. Applications of all nationalities are welcome, but applicants must be a current member of the Systematics Association or Linnean Society of London.

Successful projects are selected by a panel of systematists who represent a wide range of conceptual interests and taxonomic groups. Generally, applications in the range of 500-1000 are preferred, the value of any single award will not exceed 1500.

Deadline: 23.59 GMT on Monday 15 February 2021.

More information on LinnéSys on the Systematics Association webpage: <https://systass.org/grants-and-awards/srf/> Questions about the application procedure can also be sent to the LinnéSys Administrator (LinneSys@systass.org).

Dr Anne D. Jungblut Grants & Awards Secretary Systematics Association

Anne Jungblut <a.jungblut@nhm.ac.uk>

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## Pterois spp Sample Request

Dear colleagues,

We, the Lionfish Team at Wageningen University, are investigating differences between invasive and native lionfish (*Pterois* spp.) (<https://www.wur.nl/en/Research-Results/Chair-groups/Animal-Sciences/-Behavioural-Ecology-Group/Research/Behavioural-Ecology/Between-two-oceans-Lionfish-cognition-and-environmental-change.htm>). Due to covid-19, our sampling trips have been cancelled, and we are asking the international science community to help us instead! It would be a great help to us if anyone with study sites within the lionfish range (invasive or native) could collect and send samples (fixed) from your area, or if not at a study site, provide us with previously collected samples if you have them.

If you are interested in helping, you can contact us at [elizabeth.phillips@wur.nl](mailto:elizabeth.phillips@wur.nl) and we can send you more information on collecting and shipping samples. If you are unable to help, we would appreciate you forwarding this message on to any colleagues that may be able to!

Thank you in advance, Elizabeth Phillips and the Lionfish Team

Elizabeth Phillips Behavioral Ecology Group  
Wageningen University, the Netherlands  
[elizabeth.phillips@wur.nl](mailto:elizabeth.phillips@wur.nl)

"[elizabeth.phillips@wur.nl](mailto:elizabeth.phillips@wur.nl)" <[elizabeth.phillips@wur.nl](mailto:elizabeth.phillips@wur.nl)>

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## Res Visits To Nat Sci Collections Call Mar 15

Dear All, please find below the announcement that the 3rd Transnational Access Call within SYNTHESYS+ for short research visits at the participating natural science collections will open on March, 15th.

More information is available under the links provided below. Best wishes Eva Häffner

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 [www.botanischer-garten-berlin.de](http://www.botanischer-garten-berlin.de) [SYNTHESIS+\_logo\_rev]

SYNTHESYS+ Transnational Access - Call 3 opening 15th March 2021 Funding available for researchers to undertake short research visits at 21 partner institutions  
Call 3 Deadline: 15th April, 2021 (17:00 UK time)

The SYNTHESYS+ Management Team is pleased to announce the third tranche of Transnational Access visits, funded via the SYNTHESYS+ project under the current European Commission's Horizon 2020-funded Integrating Activities programme.

SYNTHESYS Access funding provides researchers with funding support to undertake short visits to utilise the infrastructure (comprising the collections, staff expertise and analytical facilities) at one or more of the 21 partner institutions (see full list below) for the purposes of their research. Since 2004, the SYNTHESYS programme has supported over 52,000 days of research activity across 4,000 separate projects, generating over 5,000 publications including books, monographs, peer-reviewed papers and theses.

Access Call 3 will open for applications on 15th March 2021. The Call 3 deadline is 15th April, 2021 (17.00 UK time).

Due to the COVID-19 pandemic, we appreciate that both international travel and institutional access are restricted therefore if your application is successful the proposed visit dates may be delayed. We hope that delayed Call 1 and 2 visits will take place later this year and successful applicants who have not yet had their visit should please check the News page for updates: <https://www.synthesys.info/news-events.html>. We plan to use a new online portal for applications this year: the European Loans and Visits System (ELViS), currently being developed through SYNTHESYS+ Joint Research Activities. Whilst we do not anticipate any problems, this will be the first time ELViS has been used for a Transnational Access call so we advise you apply in good time before the deadline.

APPLY HERE < <https://www.synthesys.info/access/transnational-access.html> >

#### Taxonomic Access Facilities (TAFs)

The 21 partner institutions are organised into 13 national TAFs. TAF users will be hosted by a TAF staff member (host).

The 13 TAFs represent an unparalleled resource for taxonomic research offering: o collections amounting to over 490 million natural history specimens

\* internationally renowned taxonomic and systematic skill base \* Facilities including molecular, imaging and chemical analysis

Proposals for funding are welcomed from high-calibre researchers in any technical discipline seeking access for short-term research visits (average duration 15 days). SYNTHESYS is able to meet costs for: o Research costs (bench fees and laboratory consumables)

\* International travel & local accommodation while based at the TAF \* A per diem contribution towards living costs See [www.synthesys.info](http://www.synthesys.info) <<https://eur03.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.synthesys.info&data%7C01%7CScott.Wilson%40nhm.ac.uk%7C2ff52e624d88443b621c08d7984b18fd%7C73a29c014e78437fa0d4c8553e1960c1%7C1%7C0%7C637145320629121734&data=bzSDWDibZNApwCjI9uKd2qqsdWv5Ht6s7iLwflbhFZY%3D&reserved=0>>

for more information or contact [synthesys@nhm.ac.uk](mailto:synthesys@nhm.ac.uk)

#### SYNTHESYS+ TAFs:

AT-TAF Naturhistorisches Museum, Vienna

BE-TAF Royal Belgian Institute of Natural Sciences, Brussels

Royal Museum of Central Africa, Tervuren

Meise Botanic Garden

CZ-TAF Národní Muzeum, Prague

DE-TAF Museum für Naturkunde Berlin Botanischer Garten und Botanisches Museum Berlin

Senckenberg Gesellschaft für Naturforschung, Frankfurt, Dresden, Görlitz,

Müncheberg, Tübingen and Wilhelmshaven;

Staatliches Museum für Naturkunde Stuttgart

Zoologisches Forschungsmuseum Alexander Koenig, Bonn

DK-TAF The Natural History Museum of Denmark, Copenhagen

ES-TAF Museo Nacional de Ciencias Naturales & Real Jardín Botánico Naturales (CSIC), Madrid

FI-TAF LUOMUS Finnish Museum of Natural History, Helsinki

FR-TAF Museum National d'Histoire Naturelle, Paris

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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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## Software NewReleaseBali-Phy3 6 0

Hi,

BAlI-Phy (<http://www.bali-phy.org>) is a Bayesian MCMC program for estimating alignments and phylogenies simultaneously from unaligned sequence data.— BAlI-Phy alignments can be 3.5 times more accurate than alignments from MAFFT and MUSCLE.

BAlI-Phy version 3.6.0 is now available for Windows, Mac, and Linux. The main new features are: - Faster fixed-alignment analyses. - Faster ancestral-sequence reconstruction. See the draft Application Note at <https://www.biorxiv.org/content/10.1101/2020.10.10.334003v1.full.pdf> If you have any trouble using bali-phy, please post your questions to [bali-phy-users@googlegroups.com](mailto:bali-phy-users@googlegroups.com).— There is also an extensive manual at <http://bali-phy.org/README.xhtml> -BenRI benjamin.redelings@gmail.com

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## SpanishPyrenees FieldworkVolunteers Snapdragons

Fieldwork volunteers wanted: Help us study plant evolution in the Spanish Pyrenees!

Nick Barton's group at the Institute of Science and Technology (IST) Austria (<https://ist.ac.at/en/research/-barton-group/>) is looking for volunteers to assist with field work on plant speciation in the Pyrenees (Spain) this coming summer (late May - early August). This is a great opportunity for anybody looking to obtain experience in field work relating to evolutionary biology, speciation, plant ecology and plant-animal interactions.

The project: We study evolutionary dynamics and speciation in snapdragons. The study which has been running since 2011 involves field work on natural hybrid zones between two subspecies with different coloured flowers. The goal is to understand how different evolutionary forces like natural selection have shaped this diversity.

The fieldwork: We are seeking volunteers to assist with the field work, which involves working in teams to map

the location of individual plants (GPS), tag and sample them for leaves and flowers, measuring traits, and processing material for later DNA extraction. There may also be opportunities to be involved in other projects focusing on pollinator behaviour and plant-insect interactions. Most of the work is outdoors, but we do spend some time indoors processing samples. The work is highly team orientated, typically in groups of 2-3 in the field and larger groups processing samples back at the research station.

The location: is near Ripoll in a beautiful part of the Pyrenees of North Eastern Spain (Catalonia). We stay in comfortable apartments overlooking a picturesque valley, with close access to hiking trails and small villages.

The ideal applicant: is an enthusiastic, hardworking biology student with strong interest in working outdoors. You must be meticulous with recording data and also be comfortable working as part of a team. Experience with field-based projects and plants is helpful but not essential. Climbing experience is useful as some work is conducted on ropes. We are looking for volunteers between the 29th May and the 1st of August. The length of stay is flexible but we ask people to commit to a minimum 3 week stay. Applicants must be located in the Europe or the UK.

What we cover: All food, lodgings and any travel within Europe/UK are covered.

How to apply? By the closing date of April 10th, please send (i) your CV, (ii) a short explanation about why you are interested, and (iii) your availability between the above dates to [fieldvolunteer2021@gmail.com](mailto:fieldvolunteer2021@gmail.com)

Please send any questions to the same address.

\*A note about Covid19 Although we are planning the field season optimistically, the Covid19 pandemic may force us to change/cancel our plans at very short notice. We will give as much notice as possible regarding any changes. Assuming the field season proceeds normally, all and volunteers will be required to present a negative Covid test prior to their arrival in the field.

Sean STANKOWSKI <[sean.stankowski@ist.ac.at](mailto:sean.stankowski@ist.ac.at)>

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## SSE Grant For AIBS Apr19-23

### 2021 AIBS Virtual Advocacy Event Grants

The Society for the Study of Evolution (SSE) Public Policy Committee is pleased to offer grants to SSE members to attend the American Institute of Biological Sciences (AIBS) 2021 Virtual Advocacy Event (<https://www.aibs.org/news/2021/210113-2021-virtual-advocacy.html>), comprised of a Communications Boot Camp for Scientist\*s\* (April 19-20, 2021) and Congressional Visits Day (April 21-23). In addition to the training, participants will speak with their elected congressional representatives during virtual meetings organized by AIBS. Scientists and graduate students who are interested in communicating the importance of federal investments in scientific research and education to lawmakers are encouraged to participate in this valuable workshop. Funding will cover the cost of registration.

To apply, please complete this application, including a brief (<250 words) statement describing your interest in participating in federal policy making and what issues you would like to address: <https://forms.gle/PoDn42KE2jYKdUr9A> We especially encourage applications from individuals belonging to historically excluded groups. Applicants must be members of SSE. Visit <https://bit.ly/SSEMembership> to learn more about SSE Membership and how to join. Read statements from previously funded participants here: <http://www.evolutionarysociety.org/news/display/2018/5/10/sse-mentorship-highlight-aibs-congressional-visits-day/> Applications are due March 10, 2021.

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

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## Switzerland 2 InternManager ForestEvol

(1)

Internship.ForestQuantitativeGenetics.Switzerland

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. In the framework of the ERC Consolidator Grant, MyGardenOfTrees, the Research Group Evolutionary Genetics is looking for an intern in forest quantitative genetics (100%)

MyGardenOfTrees is aimed at understanding how genes and the environment shape together the survival and growth of forest tree species. This project will reveal major patterns and drivers of adaptation and build a predictive model for selecting optimal seed sources. The recruited trainee will participate in various experiments aimed at improving the genomic resources for European beech and silver fir. With the supervision of several experts, the candidate will perform a controlled cross experiment, germinate and care for seedlings in a greenhouse, test protocols for field trials, take part in field sampling, and prepare samples for sequencing.

Ideal candidates hold an MSc in forest sciences, ecology or quantitative genetics and have experience with field and/or greenhouse experiments and laboratory work. We wish to recruit a person who is organized, rigorous, capable of independent work, and has good communication skills. Good command of English (oral and written) is required. This position includes working at height, thus not suitable for a person with fear of heights. This position requires a flexible work schedule: work at a few weekends and participation in a two weeks field campaign in Bulgaria in August are expected. Ideal candidates also hold a drivers license.

Please send your complete application to Michèle Bucher, Human Resources WSL, by uploading the requested documents through our webpage.

<https://apply.refline.ch/273855/1140/pub/1/-index.html> Applications via email will not be considered. Katalin Csilléry ([katalin.csillery@wsl.ch](mailto:katalin.csillery@wsl.ch)) will be happy to answer any questions. The formal evaluation process will begin on 1 March 2021 and a start date of 1 April is highly desired. It is a fixed term 6 months contract. Qualified and motivated women are particularly encouraged to apply for this position.

(2)

ProjectCoordinator.Communication.Forests.Switzerland

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. In the framework of the ERC Consolidator Grant, MyGardenOfTrees, the Research Group Evolutionary Genetics is looking from April 1st or by arrangement, for a period of 18 months for a project coordinator in communication and forest science (60-80%).

MyGardenOfTrees is aimed at understanding how genes and the environment shape together the survival and growth of two forest tree species, European beech and silver fir. Using a species range-wide participatory science experiment, this project will reveal major patterns and drivers of adaptation and build a predictive model for selecting optimal seed sources. The project coordinator will develop and manage a participant network of foresters, manage an international team of other project coordinators, take part in the development of field protocols and in the development/maintenance of the project website.

Ideal candidates hold an MSc degree, and have studied or have experience in science communication, project management and forest sciences (for example, forest management, ecology or genetics). We search for a dynamic person with excellent communication skills, who can effectively communicate with foresters, and has a written and oral fluency in English and German. Interest in participatory science approaches is essential. Experience in database management, statistical analysis, web design and development, grant writing, and knowledge of an additional European language will be advantageous for this position.

Please send your complete application to Michèle Bucher, Human Resources WSL, by uploading the requested documents through our webpage.

<https://apply.refline.ch/273855/1141/pub/1/-index.html> Applications via email will not be considered. Katalin Csilléry, [katalin.csillery@wsl.ch](mailto:katalin.csillery@wsl.ch), will be happy to answer any questions. The

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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>

## UCincinnati REU EvolutionEcol

Dear Colleague:

I am writing to let you know about a summer research opportunity for undergraduate students in the Department of Biological Sciences at the University of Cincinnati - the National Science Foundation-sponsored Research Experiences for Undergraduates (REU) Site in Sensory Ecology. Our program is focused on research at the intersection of neurobiology, behavior, ecology and evolution, and is directed at understanding how animals sense and respond to their environment at functional and evolutionary levels. Sophomore and junior Biology major students will be chosen to join active lab groups for the summer and conduct cutting edge research over a broad spectrum of topics in sensory ecology, including:

\* Genomics and development of sensory systems \* Neural mechanisms of sensory system function \* Sensory perception and behavioral influences of the physical environment \* Neuroethology \* Animal communication \* Behavioral ecology of animal movement and dispersal

An educational program will develop student research and professional skills and prepare them for graduate school or careers.

\* ~10 weeks in summer (June 1 - Aug 6, 2021) \* Students will receive a summer stipend plus dorm and meal expenses \* Students will work in labs, interact w/ faculty mentors, post-docs and grad students \* Weekly group seminars and meetings for students (e.g., career development, responsible research conduct, science communication training) \* Social events for students (e.g., trips to Cincinnati Zoo, Reds baseball) \* Concluding student research "mini-symposium" presentation session

Student applicants will be selected based on multiple criteria. Applications for the REU program will be screened by a committee to select individuals whose interests are well-matched with faculty in the program. Emphasis will be placed on faculty recommendations and student statements, along with academic performance and other indicators of future research success. Note: Implementation of the REU program is contingent on National Science Foundation funding.

The application review will begin March 12, 2021, and will close March 24. Students can apply online at: <https://www.artsci.uc.edu/departments/biology/>

[special-programs/reu.html](#) We hope you will encourage your students to visit our website and consider applying.

Thank you.

Stephanie Rollmann, PhD ([stephanie.rollmann@uc.edu](mailto:stephanie.rollmann@uc.edu))  
and John Layne, PhD ([john.layne@uc.edu](mailto:john.layne@uc.edu))

[laynejn@UCMAIL.UC.EDU](mailto:laynejn@UCMAIL.UC.EDU)

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## UTexas ElPaso REU Evolution

REU Opportunity Summer 2021: “Research Experience for Undergraduates in Chihuahuan Desert Biodiversity” - DEADLINE MARCH 19, 2021

The University of Texas at El Paso (UTEP) Department of Biological Sciences invites applicants for the NSF sponsored Research Experience for Undergraduates (REU) in Chihuahuan Desert Biodiversity. This is a 10 week summer program. The goal of this program is to provide undergraduate students with experience in hypothesis-driven collaborative research utilizing field based and/or laboratory methods and fully engage students in projects associated with the ecology and evolution influencing Chihuahuan Desert biodiversity.

The program provides:

- \* High quality research experience in ecology and evolutionary biology in the field and/or lab
- \* Research opportunities at the Indio Mountains Research Station (IMRS), a 40,000 acre facility controlled by UTEP and/or other Chihuahuan Desert field sites
- \* One-on-one and group mentoring from active research faculty in multidisciplinary fields
- \* Training in bioethics and other relevant professional skills

The program includes:

- \* \$6000 stipend for 10 weeks
- \* Housing in shared apartments and field station
- \* Travel reimbursement of up to \$600

For more information on the program, research projects or to apply please visit: [www.utep.edu/couri/-programs/cdb-reu/](http://www.utep.edu/couri/-programs/cdb-reu/) Enquiries: [CDB-REU@utep.edu](mailto:CDB-REU@utep.edu)

\*The format of this program is contingent on whether there are restrictions on travel and housing due to Covid-19. Students local to the El Paso region are especially encouraged to apply.

“Moody, Michael L” <[mlmoody@utep.edu](mailto:mlmoody@utep.edu)>

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## UVermont Undergraduate REU Physiological Evolution

Dear EvolDir community,

Please pass on information about this research opportunity to interested undergraduates:

Summer Research Opportunity for Undergraduates in Physiological Ecology and Genetics

We are currently accepting applications from undergraduates who live or attend college in EPSCoR jurisdictions (Alabama, Alaska, Arkansas, Delaware, Guam, Hawaii, Idaho, Iowa, Kansas, Kentucky, Louisiana, Maine, Mississippi, Montana, Nebraska, Nevada, New Hampshire, New Mexico, North Dakota, Oklahoma, Puerto Rico, Rhode Island, South Carolina, South Dakota, Vermont, Virgin Islands, West Virginia, or Wyoming) to participate in a National Science Foundation-funded summer research program in genetic and physiological mechanisms of temperature acclimation in *Drosophila* from June 1 - July 30, 2021. Students will join a laboratory at one of our four participating institutions, The University of Kentucky, University of Vermont, Providence College, or Salve Regina University, and work in teams on research projects that will include both field and laboratory components as well as training in data analysis and visualization. No prior research experience is required; all you need is a year of college-level biology coursework, enthusiasm for biology, and a desire to engage with the exciting process of scientific discovery. Participants will receive a \$4,000 stipend, and travel, room and board for the duration of the program are provided as needed. To find out more and to apply, please visit [thermofly.org](http://thermofly.org) and fill out the online application form. Members of traditionally under-represented groups in STEM are particularly encouraged to apply. The format of this program is contingent on whether there are restrictions on travel and housing due to Covid-19. Students local to the participating institutions are especially encouraged to apply. We will begin reviewing applications on March 1.

To see ongoing research projects in our laboratories, please visit: Dr. Nicholas Teets, University of Kentucky: <http://www.teetslab.com/> Dr. Seth Frieze, University of Vermont: <https://www.uvm.edu/cnhs/bhsc/-profiles/seth-frieze-phd> Dr. Brent Lockwood, Univer-

sity of Vermont: <https://lockwoodlab.weebly.com/> Dr. Sara Helms Cahan, University of Vermont: <http://shelmscahan.github.io/> Dr. James Waters, Providence College: <https://www.lovetheants.org/lab/> Sara Cahan <[scahan@uvm.edu](mailto:scahan@uvm.edu)>

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## AarhusU MegafaunaPopulationGenetics

Genomics-based Population Demographic Histories for Megafauna

Fully-funded open 2-yr postdoc position for an exciting project on population histories of large-bodied at Aarhus University supervised by Jens-Christian Svenning and Mikkel Heide Schierup. To apply before April 1, 2021, please visit <https://bit.ly/megageno2> Detailed description:

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.

We are offering applicants an exciting opportunity to join Center for Biodiversity Dynamics in a Changing World (BIOCHANGE). BIOCHANGE aims to address one of the key challenges facing humanity – how to conserve the diversity of life on a planet heading towards 11 billion inhabitants and facing strong climate change in order to safeguard our natural and cultural heritage, quality of life, the numerous ecosystem services on which society depends, and even the basic functioning of the biosphere. Ecological science is key to overcoming this challenge, and BIOCHANGE works towards this goal via basic research on fundamental Anthropocene ecological dynamics, climate change impact predictions, scenarios, and mitigation options, Big Data ecological approaches, and interdisciplinary perspectives on human-nature relations and solutions.

**Starting Date and Period** The position is for 2 years and is available from August 1, 2021.

**Job description** Large-bodied mammal species (megafauna) are ecologically important, but have decline worldwide across the last 50,000 years or more under pressure from hunting, habitat loss etc., with these declines still ongoing in many regions. In consequence, megafauna species have special attention in nature conservation and ecosystem restoration. At the same time, there are many unanswered questions about past megafauna population dynamics, their drivers (notably climate vs. human impact), and, linked to this, uncertainties about restoration targets. This postdoc project will address this key knowledge gap through reconstructing population demographic histories for a large number of mammal species

worldwide, contrasting megafauna and smaller species. Whole genome sequence data is publicly available as raw data for numerous megafauna species, often from multiple individuals. Such data contain a rich source of information on past demographic changes that can be extracted using population genetics approaches. This bioinformatics project will be based on existing data, and key elements in the work will be to locate and curate the data available such that it can be aggregated in a homogenized database for subsequent population demographic reconstructions to be coupled with relevant ecological modelling. The postdoc is expected to contribute ideas and concepts to the project and lead the development of at least two high-quality papers based on the project, contribute to the project's public outreach and teaching, as well as collaborate with other team members, including students, sharing skills, and helping solve problems in her/his area of expertise.

**Your profile** Applicants must have PhD degree in bioinformatics, population genetics or quantitative biology (or equivalent), or have submitted their PhD thesis for assessment before the application deadline. Expertise in large-scale bioinformatics analyses is required and familiarity with population genetics principles for inference on population demographics is a great advantage. Experience with ecological niche modelling and interest in megafauna, ecology, and conservation are also an advantage. The successful candidate is expected to have strong collaborative skills, proven abilities to publish at a high international level, and have good skills in English and international applicants who do not have English as their first language must prove strong English language writing skills and fluency.

Who we are Project PI prof. Jens-Christian Svenning will be the main supervisor. The postdoc will join Svenning's VILLUM Investigator team within the Center for Biodiversity Dynamics in a Changing World (BIOCHANGE) and the Section for Ecoinformatics & Biodiversity (ECOINF). BIOCHANGE is a center of excellence focused on improving our understanding, predictive capacity, and responses to the ongoing and future dynamics in biodiversity under global change. ECOINF harbors strong expertise in macroecology, remote sensing, and megafauna and vegetation ecology, as well as in ecology and biodiversity broadly. Together BIOCHANGE and ECOINF constitute an ambitious, collaborative and highly international research community. Postdocs and PhD students are encouraged to collaborate within the group, across departments and with other universities. More

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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## Antwerp Evolutionary Computational Genomics

The Svardal lab at the University of Antwerp, Belgium, is looking for PhD and Postdoc candidates to be part of an exciting funded project to study the occurrence and role of structural genetic variants in the rapid adaptive diversification of cichlid fishes.

In one of two available project you will either

(1) establish novel molecular and computational techniques to identify structural variants

or

(2) develop machine learning and population genomic approaches to model the evolutionary and adaptive history of these structural variants and understand their role in adaptive radiation.

We are looking mainly for candidates with a quantitative (computational genomics, population genetics) background, but also candidates with a different background interested in these topics are welcome to apply.

Closing date 01 March 2021. Earliest start date 01 April 2021. Remote work possible.

More information here:

<https://www.uantwerpen.be/en/staff/hannes-svardal/svardal-lab/open-positions-structural-variant-genomics/> Direct application link:

<https://www.uantwerpen.be/en/jobs/vacancies/-academic-staff/?q=1432&descr=Postdoctoral-scholarship-holder-Evolutionary-computational-genomics> Postdoc fellowships are for up to 3 years with an initial contract of 1 year.

– Hannes Svardal Research Professor in Evolutionary, Ecological and Environmental Omics Department of Biology University of Antwerp

Campus Groenenborger, room U758  
hannes.svardal@uantwerpen.be

Hannes Svardal <Hannes.Svardal@uantwerpen.be>

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## BenGurionU PDF PhD HostParasiteEvolution

Subject: Opened PhD and POSTDOC positions - the Evolutionary Ecology of Host-Parasite Interactions

Title: Postdoctoral Research Associate and PhD Positions

Location: Ben-Gurion University of the Negev, Marco and Louise Mitrani Department of Desert Ecology (MDDE), Midreshet Ben-Gurion campus, Israel.

Position description: Open positions are available, and the successful candidates will be able to choose between multiple projects in the laboratory; from bacterial species coexistence, through behavioral aspects of disease ecology, to bacterial evolvability (the evolution of parasite capabilities to produce novel variation). Some of the research projects conducted are part of a collaborative project between leading laboratories in the field (University of Michigan, Dr. Luis Zaman; The University of Texas at Austin, Prof. Jeffrey Barrick; Michigan State University, Prof. Richard Lenski; The Hebrew University of Jerusalem, Prof. Shimon Harrus) and multiple years of funding are possible.

Minimum qualifications: MSc or PhD in ecology or microbiology.

Devotion to work, curiosity.

High level of scientific writing and publications in English.

Preferred additional qualifications:

Strong background in evolutionary biology, community ecology, or disease ecology. Experience in microbiological methods or molecular biology. Quantitative thinking.

Proficiency with R for statistical analyses.

Application deadline: Better before the 24 of February 2021, but flexible.

About the laboratory: We use evolutionary and ecological theories to investigate the interactions between microbes, their vertebrate hosts, arthropod vectors, and the surrounding environment. Our philosophy is that realism and simplicity must be balanced. We get closer to nature by studying simultaneously wild, multiple host and multiple parasite species. However, our main model 'X' the rodent-flea-bacterial system of the Negev Sand Dunes (Israel) 'X' keeps the studies quite simple

as all the relevant players are readily manipulated in the laboratory and field. The research lies at the interface of evolution, ecology, microbiology, disease ecology, immunology, and molecular genetics.

About Midreshet Ben-Gurion campus: This campus of the Ben-Gurion University is situated at a beautiful site in the Negev Desert (south Israel), surrounded by desert wildlife and its student population is made of about 50% foreign graduate and postdoctoral students that come from all over the world together with local Israeli students. The campus has a friendly attitude and plenty of opportunities for social interactions with fellow students and locals alike.

Interested? Submit a paragraph detailing your interests and experience, a CV, and a list of three references (with contact information) to Dr. Hadas Hawlena (hadashaw@bgu.ac.il).

Hawlena Hadas <hadashaw@bgu.ac.il>

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## ChicagoBotanicGarden 2 Phylogenomics

We seek to hire a postdoctoral researcher to help in leading a project assessing pollination, reproductive biology, population genetics/genomics, and phylogenomics of *Amsonia* (Apocynaceae). The ideal applicant is a motivated, independent researcher with strong analytic and communication skills, a commitment to learning new skills, and shares our interests in applying these skills to questions related to conservation of biodiversity. We hope that this position will provide an opportunity for a postdoc to use and extend existing skills, as well and acquire new ones that contribute to meeting the applicant's career goals.

See the full position description at [https://www.chicagobotanic.org/jobs/-postdoctoral\\_researcher\\_amsonia](https://www.chicagobotanic.org/jobs/-postdoctoral_researcher_amsonia). The position is based in the Plant Biology and Conservation Program at the Chicago Botanic Garden and is funded for three years. Review of applications begins 7 March, 2021 and will continue until the position is filled. The ideal start date for the position is Spring 2021. To apply, visit <https://www.chicagobotanic.org/jobs>. In addition to the Chicago Botanic Garden application materials, please submit (1) a cover letter that includes a statement of why you are interested in this, briefly outlines relevant experience, and describes how it will

further your career goals and (2) a CV including contact information for three references.

Contact Krissa Skogen at [kskogen@chicagobotanic.org](mailto:kskogen@chicagobotanic.org) with any questions.

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We are hiring a postdoctoral researcher for this short-term position to contribute to ongoing efforts to reconstruct phylogenies of Onagraceae at multiple taxonomic levels. Data collection has already been completed, and DNA sequence data (target enrichment for over 300 nuclear genes) is available for over 600 taxa. Phylogenomic analyses are underway; the postdoc hired will assist in implementing cutting-edge methods for inferring phylogenies, testing hypotheses of relationships, and reconstructing ancestral character states and transitions. It is expected that the postdoc will initiate new manuscripts and contribute to ongoing papers. Opportunities to contribute to the sequencing, assembly, annotation, and analysis of new genomes sequences are also available. Relocation to Chicago is not required and will be happy to work with remote applicants.

See the full position description at [https://www.chicagobotanic.org/jobs/postdoctoral\\_researcher](https://www.chicagobotanic.org/jobs/postdoctoral_researcher)

The position is based in the Plant Biology and Conservation Program at the Chicago Botanic Garden and is funded for up to 9 months, dependent on start date. Review of applications begins 7 March, 2021 and will continue until the position is filled. To apply, visit <https://www.chicagobotanic.org/jobs>. In addition to the Chicago Botanic Garden application materials, please submit (1) a cover letter that includes a statement of why you are interested in this position, briefly outlines relevant experience, and describes how it will further your career goals and (2) a CV including contact information for three references.

Contact Norm Wickett at [nwickett@chicagobotanic.org](mailto:nwickett@chicagobotanic.org) with any questions.

Norm Wickett <[nwickett@chicagobotanic.org](mailto:nwickett@chicagobotanic.org)>

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## CzechRepublic CommunityEcoEvolutionaryDynamics

A three-year postdoctoral position in eco-evolutionary dynamics of host-parasite communities is available in Jan Hrcek's lab [ <http://lab.hrcek.net> ] at the Biology Centre, Czech Academy of Sciences, Ceske Budejovice, Czech Republic.

The candidate will develop a project on the interface between population genetics and community ecology. Our laboratory utilizes a novel experimental community model system of wild *Drosophila* species and their parasitoids from tropical Australia. We are able to perform multigenerational laboratory microcosm experiments and track eco-evolutionary dynamics in fine detail. The candidate's project will be complementary to Jan's ERC-CZ grant (2020 to 2025) investigating relationships between the maintenance of genetic variation within populations and species diversity within ecological communities. These processes are typically studied separately, but likely interact to structure diversity in ecological communities.

The laboratory is an international team of PhD students, postdocs and technicians and the applicant will have the opportunity to work extensively with other team members. The laboratory can provide substantial resources and support for exceptional research. Further, the candidate will collaborate within the PI's wide network and establish new links for this project.

Primarily, we are looking for a candidate with experience in eco-evolutionary dynamics modelling, preferably using individual based models. Other experience in population genetic or population genomic modelling would also be useful. The candidate is expected to develop models tied to our *Drosophila* parasitoid system, as well as more general models for addressing theoretical questions in eco-evolutionary dynamics. The candidate's project can also include laboratory and field experiments.

Interested candidates are encouraged to contact Jan [janhrcek@gmail.com] with brief motivation letter and CV as soon as possible in order to have a chance to submit Czech Science Foundation or Marie-Curie fellowship applications. Main funding routes are:

- Czech Science Foundation postdoc incoming fellowship 'V deadline already on 6th April 2021! - Marie-Curie fellowship 'V deadline in September. Only two years, but another year extension possible on ERC-CZ grant.
- a position will be available on ERC-CZ grant even if a fitting candidate is not successful in the above fellowship calls.

The salary of 60.000CZK/month gross + benefits more than comfortably covers living expenses in Ceske Budejovice and international holiday travel. Salary would be even higher with Marie-Curie. Expected starting date is beginning of 2022. The working language is English and applicants from all countries are eligible.

Jan Hreck <janhrcek@gmail.com>

## 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 statistical 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](mailto:Andrew.Roger@Dal.Ca)>

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## Eawag Switzerland Aquatic Ecology Evolution

The yearly call for the prestigious Eawag-Postdoc, a 2-year postdoctoral fellowship at Eawag, the Swiss Federal Institute of Aquatic Science and Technology, is open:

<https://apply.refline.ch/673277/0824/pub/1/-index.html> The deadline for applications is 7 April 2021. Please refer to the advert for details. The call is open for researchers in any field within the area of aquatic sciences, and we encourage ecologist and evolutionary biologists to apply.

Information on our research in these fields is available via the following links: <https://www.eawag.ch/en/-department/eco/organisation/> <https://www.eawag.ch/en/-department/fishec/> <https://www.eawag.ch/en/-department/umik/> Interested candidates have the opportunity to define their own research project at Eawag. Feel free to contact me or any of Eawag's group leaders to discuss possibilities.

Christoph Vorburger Eawag, Swiss Federal Institute of Aquatic Science and Technology & Institute of Inte-

grative Biology, ETH Zürich Äberlandstrasse 133 8600 Dübendorf Switzerland

Phone: +41 58 765 5196 e-mail: [christoph.vorburger@eawag.ch](mailto:christoph.vorburger@eawag.ch) or [vorburgc@ethz.ch](mailto:vorburgc@ethz.ch) group homepage: <http://homepages.eawag.ch/~vorburgh/> "Vorburger, Christoph" <[Christoph.Vorburger@eawag.ch](mailto:Christoph.Vorburger@eawag.ch)>

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## ETH Zurich Directed Evolution

Postdoctoral position in Directed Evolution

The recently formed group of Dr. Macarena Toll-Riera (<https://evomicrobio.ethz.ch>) is seeking a Postdoctoral researcher to study the evolvability of a cold-adapted enzyme through the combination of experimental and high-throughput sequencing approaches. We are hosted at the Institute of Integrative Biology (ETH Zurich), in the Professorship of Evolutionary Biology.

Project background

Many mutations that improve protein function are detrimental because affect protein stability. However, extrastable proteins can accumulate mutations that improve protein function without compromising the stability of the protein, suggesting that higher protein stability could facilitate adaptation (Bloom et al., 2006).

Cold-adapted enzymes have unique structural characteristics (i.e. lower protein stability and higher flexibility) that allow them to thrive in cold temperatures. In this project we will investigate how these unique structural characteristics affect their evolvability.

Job description

The candidate will use a directed evolution approach to evolve a cold-adapted and a mesophilic  $\alpha$ -lactamase towards resistance to antibiotics. She/he will couple directed evolution experiments to sequencing to identify the mutations that confer resistance to antibiotics. The successful candidate will be encouraged to design and undertake additional projects.

We offer three years of funding and to be part of a small, but collaborative and dynamic group. We are hosted at the Institute of Integrative Biology, ETH Zurich. The candidate will benefit from a vibrant and interdisciplinary academic environment with excellent opportunities for education, training and collaboration. Aside from the high quality of life, Zurich provides easy access to outdoor activities.

### Your profile

The successful candidate should have a genuine interest in evolutionary biology, a strong background in microbiological techniques and molecular cloning and have a good command of English. Programming skills and experience analysing next-generation sequencing data are an asset.

The candidate should be highly motivated, enthusiastic, curious and able to work independently but also as a team member.

Interested?

We look forward to receiving your application with the following documents: statement of research interests, CV including publication list, academic records, and contact information for 2-3 potential references. Please send your application (one single PDF file) by email to Macarena Toll-Riera (macarena.toll@env.ethz.ch). We will start to revise applications on 15th of April, until position is filled.

Starting date: mid 2021.

Toll Riera Macarena <macarena.toll@env.ethz.ch>

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### FloridaAtlanticU BehavioralEvolution

The Kowalko lab at Florida Atlantic University is recruiting a postdoc to examine the genetic and neural mechanisms that underlie the evolution of behavior in the blind Mexican cavefish, *Astyanax mexicanus*. \*The lab uses a broad array of approaches, including genetic mapping and gene editing. The project will take place primarily in the laboratory, with the option for fieldwork depending on the candidate's interest.

For more information, please email jkwalko@fau.edu

Direct job link can be found here:

[https://fau.wd1.myworkdayjobs.com/en-US/FAU/job/-John-D-MacArthur-Campus—Jupiter/Postdoctoral-Fellow\\_REQ09733](https://fau.wd1.myworkdayjobs.com/en-US/FAU/job/-John-D-MacArthur-Campus—Jupiter/Postdoctoral-Fellow_REQ09733) – Johanna Kowalko, PhD Assistant Professor Wilkes Honors College Florida Atlantic University 5353 Parkside Drive

she/her/hers Jupiter, FL 33458

Johanna Kowalko <jkwalko@gmail.com>

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### FloridaStateU EvolGeneticsDev

The Houle lab in the Department of Biological Science at Florida State University is hiring a full-time post-doctoral scholar (PDS), starting on or after April 1, 2021. The PDS will be responsible for analysis of evolve-and-resequence and RNA expression data from artificial selection experiments, and the integration of those results with GWAS data. This is an NSF-funded project on the relationship of the genotype-phenotype map to pleiotropy and evolvability, using wing and leg development in *Drosophila melanogaster* as an experimental system. The ideal applicant will have a Ph.D. in a relevant evolutionary or genetic discipline, and experience with analysis of large sequence data sets. Funding is assured for 24 months from the initial start date. Initial salary will be \$50,000-\$60,000 USD depending on experience, plus health insurance.

To apply, or for more details, please contact David Houle (dhoule@bio.fsu.edu). Applications must include a cover letter that details skills and accomplishments relevant to the project, your CV, and contact information for three professional references.

David Houle

– Department of Biological Science Florida State University Tallahassee, FL 32306 850-339-5670

“dhoule@bio.fsu.edu” <dhoule@bio.fsu.edu>

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### GeorgiaInstTech MicrobialDynamics

Hello,

We have a post doc position at Georgia Institute of Technology to advertise. Here is the text:

CMDI Early Career Award Fellowship The School of Biological Sciences is seeking to recruit an outstanding early career PhD scientist, to promote the advancement of research excellence in the Center for Microbial Dynamics and Infection (CMDI). CMDI is a new research unit at GT, with the mission to transform the study and sustainable control of microbial dynamics in contexts of human and environmental health. The successful candi-

date will have maximal research independence, and will be titled the CMDI Early Career Award Fellow.

We are interested in candidates with a clear track record of research excellence in areas of research that are relevant to the CMDI mission. For more information on CMDI research spanning the ecology and evolution of microbes in both infection and environmental contexts, please see our website at [microdynamics.gatech.edu](http://microdynamics.gatech.edu). We will prioritize applicants who are within 12 months of their PhD defense, and applicants who have received their PhD in the past 12 months.

The CMDI Early Career Award Fellow will have the opportunity to establish an independent research program within CMDI, which has strong ties throughout the Atlanta research community. Fellows will receive separate lab and office space, full voting rights on the CMDI faculty committee, and the ability to co-advise graduate students. The Fellow will also receive extensive mentorship support from a panel of 3 CMDI faculty with the most relevant research interests. The Fellow will receive a competitive salary with a 3 year commitment, funding for lab start up and supplies, and access to core facilities and clinical collaborations within the Atlanta research community. A goal of this program is to have talented, young scientists pursue new ideas in an exciting research environment that currently has over 75 trainees and scientists.

To Apply: Go to <https://hr.gatech.edu/careers>, then search job ID 223981. please submit a cover letter, CV, plus a 2 page research statement, including connections to CMDI faculty research. Strong applicants will provide clear evidence of the highest levels of research achievement.

Interviews will begin remotely in March and will continue until the position is filled. Contact Information: For informal inquiries, please contact Sam Brown, Director of CMDI ([sam.brown@biology.gatech.edu](mailto:sam.brown@biology.gatech.edu)). For application issues, please contact Maria Avdonina, [mavdonina3@gatech.edu](mailto:mavdonina3@gatech.edu)

Thank you in advance. Regards,

Maria S. Avdonina, MS CMDI Manager School of Biological Sciences Georgia Institute of Technology 311 Ferst Drive, ES&T Atlanta, GA 30332-0230 Ph: 404.894.3417

“Avdonina, Maria” <[mavdonina3@gatech.edu](mailto:mavdonina3@gatech.edu)>

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## iDiv Germany CallSabbaticals PDF WorkingGroups

Dear all,

We at iDiv and its synthesis centre sDiv have opened several new calls for different projects:

iDiv Sabbaticals: Pre-proposal deadline is 28 March 2021  
Full proposal deadline 16 May 2021 Please check <https://www.idiv.de/en/about-idiv/sabbaticals.html> for any further information.

sDiv, the Synthesis Centre of iDiv ([www.idiv.de/sdiv](http://www.idiv.de/sdiv)) has opened calls for four new synthesis funding lines: Pre-proposal deadline 16 March 2021 Full proposal 8 June 2021

1. Call for three Individual postdoc positions
2. Call for Working Groups led by early career researchers
3. Call for modular synthesis projects with flexible funding with full iDiv Member(s) as PI(s)
4. Call for modular synthesis projects with flexible funding for any researcher as PI

For more information check: [www.idiv.de/sdiv/calls](http://www.idiv.de/sdiv/calls)  
Cheers sMarten

—  
I'm sorry, if you receive this mail at weekends, in your holidays or in non-office hours. Of course I don't expect you to answer immediately. Thanks for understanding!

Head of sDiv - Synthesis Centre of iDiv

Homepage [https://www.idiv.de/groups\\_and\\_people/employees/details/eshow/winter\\_marten.html](https://www.idiv.de/groups_and_people/employees/details/eshow/winter_marten.html)

Twitter @sMarten\_Winter sDiv google scholar <https://scholar.google.com/citations?hl=en&user=-YHISZpUAAAAJ> my TEDx talk [https://www.youtube.com/watch?v=p1wB\\_sKAfuw](https://www.youtube.com/watch?v=p1wB_sKAfuw)

Global Alien Floras [www.glonaf.org](http://www.glonaf.org) German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig Puschstraße 4 04103 Leipzig Germany

iDiv is a research centre of the DFG - Deutsche Forschungsgemeinschaft

“Winter, Marten” <[marten.winter@idiv.de](mailto:marten.winter@idiv.de)>

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## Istanbul 2PDF 3PhD InsectEvolution

Two postdoctoral positions and 3 doctoral student positions in developmental biology, evolution and endosymbiosis

At the laboratory of Ab. Matteen Rafiqi at The institute of Life Sciences and Biotechnology located in Istanbul. We study development, ecology and evolutionary biology using insects: ants, flies and true bugs as a model system. There is flexibility in terms of what successful applicants can work on, and postdocs will be encouraged to develop projects that are well-suited to their strengths and interests. Some themes of ongoing work in the lab include:

- Pattern formation and body plan evolution in ants. -
- The interaction between endosymbiont genes and host developmental gene regulatory network. -
- Role of highly conserved genes in horizontal transfer of endosymbionts.

The research involves working with insects, molecular biology laboratory, and field work (when necessary). Excellent communication skills in English are required. Interested individuals should send a CV, a brief description of research accomplishments and future goals to m.rafiqi (at) bezmialelem.edu.tr. A written test will be conducted for PhD students and an interview for postdocs on a rolling basis. The PhD candidate must either be registered for a PhD or be eligible for registration in any Turkish university. Preference will be given to applicants who can start by March 2021. The salary is governed by Tubitak rules for 2247A (click the following links for details).

<https://avesis.bezmialelem.edu.tr/2063>      <https://-bezmialelem.edu.tr/bilsab/tr/Sayfalar/anasayfa.aspx>  
<https://www.tubitak.gov.tr/tr/icerik-destek-kapsami-miktari-ve-suresi>      Matteen      Rafiqi  
 <m.rafiqi@bezmialelem.edu.tr>

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## KentStateU EvolutionaryBiology

**\*\*Postdoctoral Fellow in Evolutionary Biology\*\***

The Lamichhane Lab at Kent State University, Ohio invites applications for a postdoctoral fellow in the field of evolutionary biology. Our lab broadly studies the molecular basis of organismal persistence to novel environments and is particularly interested in understanding the relative roles genetic adaptation and phenotypic plasticity underlying trait evolution. We integrate a variety of interdisciplinary approaches, including comparative 'omics' (genomics, transcriptomics, epigenomics, metagenomics and metabolomics) and field-based ecophysiological experiments to examine the processes of adaptive evolution. More information about the ongoing projects in the lab can be found at (<https://theomicslab.wordpress.com/>). Our lab is part of vibrant community of Ecology and Evolutionary Biology at the Department of Biological Sciences (<https://www.kent.edu/biology>) as well as The Environmental Science and Design Research Initiative (ESDRI) (<https://www.kent.edu/esdri>) at Kent State University.

Research interests of the candidate is expected to align with one of the major ongoing projects in the lab to study birds that are adapted in heterogenous landscapes across elevational gradients in the Himalayas to characterize underlying mechanisms of physiological acclimation and genetic adaptation to high-altitude. In addition, the postdoctoral fellow will also have opportunities to pursue his/her own research interests relevant to the broad research theme of our lab. The successful candidate will get an excellent opportunity to learn multidisciplinary research skills, working in a project that utilizes molecular biology, computational genomics and physiological experiments.

The successful candidate is expected to have a PhD in the related fields of evolutionary biology. Previous working experience with genomics or ecophysiology will likely be an advantage.

Expected start date - As soon as possible

To apply, please send an email to Sangeet Lamichhane (slamichh@kent.edu), with following documents, - A one-page summary of candidate's previous research experience and future interests - CV, with full list of publications (including pre-prints) - Contact information of three referees



Please email slamichh@kent.edu for any additional information or informal inquiries about this job announcement

Dr. Sangeet Lamichhaney Assistant Professor Department of Biological Sciences Kent State University slamichh@kent.edu

Sangeet Lamichhaney <sangeetvet@gmail.com>

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### Mainz Germany SocialInsectEvolution

Within the Faculty 10 Biology, the Institute of Organismic and Molecular Evolution, Group Behavioral Ecology and Social Evolution at the Johannes Gutenberg University of Mainz, Germany is looking for a

Postdoctoral Researcher (EG 13 TV-L) for 33 months (with the possible extension of additional 4  $\frac{1}{2}$  years)

We invite applications for a Postdoctoral Researcher Position in the Behavioral Ecology and Social Evolution group of Prof. Dr. Susanne Foitzik at the Institute of Organismic and Molecular Evolution. This international research team focusses on the evolution, genomics, behavior, and chemical ecology of social insects (<https://www.blogs.uni-mainz.de/fb10-evolutionary-biology/research-groups/>). We are seeking a highly motivated postdoctoral researcher with a strong background in evolutionary or behavioral genomics and bioinformatics who in addition to conducting research will support scientific coordination and teaching within the Graduate Program GenEvo (<https://www.imb.de/-about-imb/joint-research-initiatives/genevo>). Tasks will include

- develop and conduct individual research projects on topics related to our research
- writing publications and grant proposals
- Initiate and coordinate collaborations between different GenEvo research groups
- Co-supervision of graduate and undergraduate research projects
- Teaching in GenEvo and Master Programs in Biology (in English)
- Support computational analysis in our group and beyond

Excellent research conditions are available at the newly

built bio center at the JGU Mainz. The working language of the lab is English. For further information, please contact foitzik@uni-mainz.de.

The University of Mainz hosts many excellent scientific institutions (<http://www.uni-mainz.de/eng/>) and Mainz is a historic city located on the Rhine River with many students and a rich social and cultural life. Interested candidates should send an application (as a single e-mail attachment) containing a CV, training certificates, a letter of motivation, and references to:

foitzik@uni-mainz.de

Closing date for the application is March 21st, 2021

Starting date for the position is negotiable, earliest possible date is April 15th 2021

Prof. Dr. Susanne Foitzik Institute of Organismic and Molecular Evolution Johannes Gutenberg University Mainz Biozentrum Hanns Dieter Hüsch Weg 15 D-55128 Mainz Germany Tel: +49 (0) 6131 39 27 840 Fax: +49 (0)6131 39 27 850 Email: foitzik@uni-mainz.de

“Foitzik, Susanne” <foitzik@uni-mainz.de>

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### Marseille Bioinformatics

Title: “One-year position for a bioinformatician / computational biologist in population genetics”

Body: JOB DESCRIPTION The successful candidate will work as support staff mainly in the development, application and maintenance of pipelines for handling large omics datasets (including whole-genome sequences, high-density genotypes and mRNA sequences). These pipelines cover pre-processing of data, statistical analyses and genome bioinformatics. The postholder will also provide support in producing high-level graphic representations of these data and of results from their analysis. Our team is part of UMR 7268 ADES research unit (Anthropologie bio-culturelle, Droit, Ethique et Santé), located at the Timone Faculty of Medicine (Aix-Marseille University, 13005 Marseille). The team includes 5 (junior and senior) researchers and 3 PhD students working in the field of genetics as pertains to biological and cultural anthropology. Part of the team, including this position, is funded by an A\*Midex Excellence Chair awarded to Prof. Andres Ruiz-Linares.

JOB QUALIFICATION - PhD/Engineer/MSc in bioinformatics, biostatistics, genetics/genomics or any related field. - Advanced knowledge of Bash/Perl scripting and

job management on a Unix HPC and in at least one basic language for data manipulation/statistics (such as R/Python/Matlab) are required. - Knowledge of at least one programming language (e.g. C), experience processing -omics data or skills in advanced graphical representation of data would be a plus.

DURATION 1 year, not extensible

SALARY Gross salary is commensurate with experience and grade (MSc from 1,882€/month and PhD/equivalent from 2,099€/month).

APPLICATIONS/OPENING Please send a motivation letter, a CV and the names of two referees to pierre.faux@univ-amu.fr. The expected starting date is April 1st, 2021; the job offer will however remain opened until the position is filled.

Pierre Faux <pierrefaux@gmail.com>

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### MGH HarvardMed MicrobiomeEvolution

\* The evolution of the human microbiome during health and disease \*

Position: Postdoctoral associate (appointed at Harvard Medical School)

Location: Smillie Lab Center for Computational and Integrative Biology Massachusetts General Hospital

Website: <https://www.smillielab.org> Description: The Smillie Lab is seeking motivated, independent, and creative people with dry or wet lab expertise to join our team. We are a new research group that uses genomics to study the human microbiome and mucosal immunity. Past work has focused on recent evolution of the human microbiome (Nature, 2011), single-cell genomics of the human colon during health and IBD (Cell, 2019), and single-nucleus mapping of the enteric nervous system (Cell, 2020).

Specific areas of interest include:

- The evolution of the human microbiome in health and disease
- Single-cell and spatial transcriptomics methods to study host- microbiome interactions
- The enteric nervous system and neuro-immune communication
- Gut and lung biology, cell-cell interactions, and tissue

circuits

We are building a collaborative, rigorous, and fun research environment with strong connections between wet and dry labs. Bench scientists can receive training in genomics and computational biology, while computational scientists can work closely with wet lab biologists. All scientists will benefit from extensive collaborations at MIT, Harvard, and the Broad Institute.

Requirements:

Qualified candidates should have:

- A Ph.D. in Biology, C.S./Engineering, Bioinformatics, Biostatistics, or a related field
- Comfort and experience with programming for biological data analysis
- Strong publication record and excellent communication skill
- Independence, creativity, and ability to work well with others

How to apply: Please send your CV and a brief description of your research interests to Chris Smillie (csmillie@broadinstitute.org).

Christopher Smillie <csmillie@mit.edu>

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### MIZ Poland CanidEvolution

A postdoctoral position in landscape genomics and ecological modelling is now open in a research group led by Dr Małgorzata Pilot at the Museum and Institute of Zoology of the Polish Academy of Sciences. The research group studies microevolutionary processes in mammalian populations using genetic and ecological approaches. We look for a person experienced with landscape genetics/genomics methods and GIS-based modelling to join a project focused on evolutionary consequences of hybridization among species from the genus *Canis* across Eurasia. The position is available for three years, from July 2021. The research group is based at the Research Station of the Museum and Institute of Zoology (MIZ), Polish Academy of Sciences in Gdańsk, Poland.

Work description

This position will involve the analyses of environmental data on canid populations across Eurasia using GIS and environmental association analyses for genomic datasets, as well as participation in the supervision of PhD stu-

dents and contribution to administrative tasks associated with research projects. The successful applicant will be expected to contribute to grant applications submitted by the group, and will be encouraged to apply for independent funding available for early career researchers. The postdoctoral researcher will thus have the opportunity to propose and explore new research questions within the general remit of the research group.

#### Requirements

The candidates for this position must hold a PhD degree in biological sciences, environmental sciences or a related discipline, and have experience in landscape genetics and/or ecological modelling using GIS. The selected candidate should have no more than 7 years of postdoctoral experience at the start time of the employment; maternity leaves and career breaks associated with health problems are not included in this 7-year period. Candidates who do not hold a PhD degree yet, but have an established date of the PhD thesis defence/viva can be also considered. However, holding a PhD will be required at the time of the job commencement.

The ideal candidate should have the following skills:

- \* good knowledge of ecological modelling using GIS;
- \* good knowledge of landscape genetics/genomics; \* ability to work independently and as a part of an interdisciplinary research team; \* experience with scientific writing, evidenced by an authorship of at least one research paper as a first author (which will be evaluated in the selection process); \* fluent knowledge of English.

Desirable skills include:

- \* experience with statistical analyses of biological or environmental data; \* knowledge of a programming/scripting language (e.g. R, Python); \* experience of working in interdisciplinary research teams.

#### Research environment

The research at the MIZ is focused on a broad range of themes in animal biology, including systematics, biogeography, evolutionary biology, ecology and population genetics. Ma<sup>3</sup>gorzata Pilot's research group is part of the Laboratory of the Molecular and Biometric Techniques led by Prof. Wies<sup>3</sup>aw Bogdanowicz, grouping researchers focused on molecular ecology, phylogeography and evolutionary genomics of a broad range of animal taxa. MIZ laboratories contain modern equipment for genomic analyses, including Pacific Biosciences RSII long-read sequencer and Illumina MiSeq System. The state-of-the-art ancient DNA laboratory carries out work on mammalian palaeogenetics. The Museum's zoological collection is among the largest and most valuable in Europe.

#### Employment conditions

Employment period: 36 months, subject to a 3-month probation period. Start date: 1 July 2021. The salary is funded by the Polish National Science Centre.

#### Documents required in the application

- \* Copy of a PhD certificate
- \* Curriculum vitae including the publication list, with the following statement provided at the end and signed:

“Based on Directive of the European Parliament and Council (European Union) nr 2016/679 from 27 April 2016 on the protection of individuals in relation to the processing of their personal data and free flow of such data, and the repeal of the directive 95/96/WE (L 119 from 4.05.2016), I agree on the processing of my personal data included in this job application for the purpose of the recruitment process.”

Applications that do not include this statement won't be considered.

- \* Motivation letter (maximum one A4 page)
- \* A copy of one research paper to be evaluated in the recruitment process
- \* Contact details of two persons who can be contacted for references.

These documents should be sent to Ma<sup>3</sup>gorzata Pilot (mpilot@miiz.waw.pl) no later than 31 March 2021. The title of the message should be

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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>

## Montpellier MicrobialEcology

Dear all,

We are looking for a postdoc in experimental microbiology and ecology of microbial communities. The post-doctoral fellow will design and conduct microbiological experiments in the laboratory and in the field to determine the role of plastic microparticles as structuring agents for marine microbial communities, as vector for pathogenic bacteria, and as agents concentrating antibiotic resistance genes and promoting their exchange by horizontal transfer.

Required skills:

\* Knowledge of evolutionary and community ecology. \* Experience in NGS data analysis (metagenomics, whole genome sequencing, shot-gun sequencing). \* Basic techniques in microbiology.

Experience in flow cytometry, bacterial genetic constructs or sampling of bacterial communities in aquatic environments will be a plus.

The post-doctoral fellow will work in the framework of the European Imptox project within the Genetics and Evolutionary Ecology team at the Centre for Functional and Evolutionary Ecology (CEFE) in Montpellier, France.

The CEFE is the largest French laboratory for ecology and evolution and gathers several groups dedicated to evolutionary ecology. The Genetics and Evolutionary Ecology team is a very dynamic and stimulating scientific environment, with 11 permanent researchers and 10 to 15 PhD and post-doctoral students, working on topics ranging from the evolution of reproductive systems and life history traits, adaptation to changing environments, speciation or community ecology and evolution. Montpellier has a large and vibrant scientific community in evolutionary biology, ecology and marine biology.

Imptox brings together 12 European partners (universities and research institutes) in an interdisciplinary project whose aim is to study the effect and toxicity of micro and nanoplastics combined with environmental contaminants on the risk of allergic disease. The work package in which the post-doctoral fellow will be involved will be realized in collaboration with the universities of Ghent and Leuven.

The initial contract is for 24 months and will be renewable for one year. For reasons of project organization, it is imperative that the postdoc starts between April 1st and May 31st.

Informal inquiries on the position can be addressed to Stéphanie Bedhomme (stephanie.bedhomme@cefe.cnrs.fr) and Martijn Callens (martijn.callens@cefe.cnrs.fr).

More details can be found here: <https://emploi.cnrs.fr/Offres/CDD/UMR5175-STEDED-004/Default.aspx?lang=EN> Applications have to be submitted through the link above and should contain a CV, a motivation letter and a list of three people to contact for recommendation.

Stéphanie Bedhomme

CR CNRS

Equipe Génétique et Ecologie Evolutive

Centre d'Ecologie Fonctionnelle et Evolutive

Montpellier

Stephanie

<stephanie.bedhomme@cefe.cnrs.fr>

BEDHOMME

## NRS McGillU PDF PhD LabTech FishEvolution

TWITTER FEED:

Arctic marine systems are warming and incurring biodiversity loss at 3x and 5x the global averages. We need to know more about species there before they disappear. Arctic marine fish ecology and evolution jobs in McGill's NRS. PhD students, Postdocs and Labtech positions available. See <https://denisroy.weebly.com/>; <http://mckinneylab.weebly.com/> /opportunities, and EvolDir Jobs and Graduate positions - for more details.

Ad:

WHERE: Department of Natural Resource Sciences, McGill University

WHAT: Grad student (PhD), postdoc, and lab technician positions

Start date: Fall 2021

Members in the Department of Natural Resource Sciences at McGill University are seeking highly motivated applicants for graduate student, postdoc, and research technician positions for the FISHSENS project for Fall 2021. Most marine fishes in Canada's Arctic are not well enough known to assess how they will be affected by climate change, information which is urgently needed to reduce Arctic biodiversity loss and protect northern cultural and food systems.

FISHSENS will combine genomics data with dietary and movement assessments to develop tools needed by federal and Inuit co-management partners to establish Arctic marine fish monitoring strategies and assess their sensitivity to climate change. Recruited candidates will develop projects combining laboratory and data analysis approaches and will collaborate with Canadian academic, government, and Inuit organizations in Nunavut and the Inuvialuit Settlement Region in the Northwest Territories.

McGill University is committed to diversity and equity and welcomes applications from Indigenous persons, women, persons with disabilities, ethnic minorities, persons of minority sexual orientation or gender identity,

visible minorities, and others who may contribute to diversification. For more information on support, funding, and community for Indigenous students at McGill:

<https://www.mcgill.ca/undergraduate-admissions/-indigenous-students>; <https://www.mcgill.ca/fph/> McGill University is Canada's premiere university for research excellence and teaching, is one of the top 50 universities worldwide, and was recently named the International Sustainability Institution of the Year. The Faculty of Agricultural and Environmental Sciences is located at McGill's Macdonald Campus, just 30 km from vibrant downtown Montreal, providing students with both urban culture and recreational opportunities.

Graduate students at Mac campus are  $\hat{A}\frac{1}{4}$  of the student body and the campus houses 8 graduate programs and 100+ faculty members. See here for more information:

<https://denisroy.weebly.com/>; <http://mckinneylab.weebly.com> ; <http://mcgill.ca>; <http://mcgill.ca/nrs> Ideal candidates will have a strong work ethic, enthusiasm for the research, independent and team-work skills, and a suitable academic training in a relevant discipline: natural resources, ecology, evolution, genetics, bioinformatics, environmental chemistry, environmental science, or a closely related field, and experience in at least one of the following:

- DNA extractions, library preparations, quality screening, PCR, extraction robots, gel docs, and associated instruments - Stable isotopes or fatty acids extraction and analysis (GC-FID, IRMS) - Statistical analysis of biological or environmental data (e.g., in R), bioinformatics tools (e.g., VCFtools, genome assemblies, and annotation) - Fieldwork, fish identifications, working in Inuit communities and organizations

Potential graduate students will have to apply to the Department of Natural Resource Sciences at McGill, which has strict admission standards (minimum GPA of 3.0/4.0, or 3.2/4.0 in the last two years). Transcripts, letters of support, CV, and a strong personal statement are part of the application. Deadline for fall 2021 admission are May 31st for Canadian applicants and March 15th for international applicants.

Annual graduate student stipends will be provided, with opportunities for supplementation through applications for scholarships and teaching assistantships. Postdoctoral and research technician positions include salary plus benefits. Please note that position availability is contingent upon funding.

Please send a cover letter indicating your research experience and goals, a CV, and, for PhD student positions, unofficial transcripts. For genomics/bioinformatics positions, send application materials to Dr. Denis Roy,

Assistant Professor, at [denis.roy5@mcgill.ca](mailto:denis.roy5@mcgill.ca). For dietary/chemical tracers positions, send application materials to Dr. Melissa McKinney, Assistant Professor, and Canada Research Chair,

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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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## NTNU Norway SexualSelectionDynamics

Dear Colleague,

At the NTNU, Trondheim, Norway, we have announced a postdoc to work on the project DYNAMAR: Dynamics of Sexual Selection in a Changing Ocean: Integrating Life History and Local Adaptation. The Deadline is 10 March, and application to be sent via the Jobbnorge portal.

<https://www.jobbnorge.no/en/available-jobs/job/-200610/postdoctoral-position-in-evolutionary-and-behavioural-science> The Deadline is 10 March, and I ask for your help in announcing the position, by forwarding to colleagues and potential candidates, social media, good old posting on notification boards, or otherwise. We search for candidates keen for exciting field and lab work on our model system, the two-spotted goby fish.

The DYNAMAR project is funded by the Research Council of Norway for 2019-24: <https://prosjektbanken.forskingsradet.no/#/project/NFR/-294453/Sprak=en> The DYNAMAR team covers a broad range of complementary competence. At NTNU: Trond Amundsen (PI), Henrik Jensen, Irja Ratikainen, Fredrik Jutfelt & Elin Kj??rsvik. At NINA: Sebastian Wacker, at HI/IMR Halvor Knutsen & Anne Christine Utne Palm, at Nord University Joost Raeymaekers, at Univ Bergen Christian J??rgensen; abroad Lotta Kvarnemo (G??teborg), Hanna Kokko (Zurich) and Rob Brooks (UNSW).

Potential applicants should not hesitate to get in touch ([trond.amundsen@ntnu.no](mailto:trond.amundsen@ntnu.no)) if they have questions about the project and the position.

All the best, Trond

Trond Amundsen

Professor of Animal Behaviour  
 Department of Biology  
 NTNU  
 Tel +47918 97293  
 Email trond.amundsen@ntnu.no  
 Trond Amundsen <trond.amundsen@ntnu.no>

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## Pau France 2 MicrobialEvolution

Dear all,

We are recruiting two collaborators in Microbial Ecology with expertise in Bioinformatics and/or Computational Biology at the Université de Pau et des Pays de l'Adour. The fellowships will have the duration of 12 months with possibility of extension at the end of this period.

Topic:

Metallophores in microbial communities: distribution, diversity, importance in microbial assemblages and ecosystem functioning

Scientific context:

In a natural environment, at pH where most life exists, microbial growth can be limited by the availability of metals. This limitation in the environment can have significant consequences on ecosystem functioning. To ensure their survival and their development, microorganisms have developed strategies for the recovery and absorption of metals from the surrounding environment. The capture of metal is ensured by the synthesis of siderophores (iron) or more generically metallophores. The biosynthetic potential of metallophores does not appear to be equally distributed among organisms, environments or microbial life cycles, but rather is enriched within a number of prolific clades. One field of investigation aims at seeking for new metallophore biosynthetic genes to enlarge our view of their diversity in the microbial world and investigate these data in an eco-evolutionary perspective.

Scientific environment:

The post-doctoral fellows will work at the IPREM Institute (<https://iprem.univ-pau.fr/fr/index.html>) under the supervision of Pr. B. Lauga and Pr R. Duran, and in collaboration with M. Medema ( bioinformatics group) at the U. Wageningen.

The two post-doctoral fellows will form a team bring-

ing all the bioinformatics expertise required for a fine investigation of metagenomic and metatranscriptomic data generated on field collected, microcosm generated samples and worldwide databases in order to i) establish an inventory of metallophore biosynthetic gene clusters (BGC), in microbial genomes and metagenomes from diverse environments, ii) infer their role in microbial assemblages by linking them to known metallophores and natural products, iii) conduct meta-analysis on the distribution of BGC across worldwide habitats in order to highlight any specific distribution and reveal if hot spots of genetic diversity exist for metallophore BGC.

Our ultimate goals are i) to better understand the metabolic interactions occurring within complex multi-species microbial assemblages, ii) to evaluate, at the ecosystem level, how metallophores contribute to community assembly, functioning, and beyond, to ecosystems functioning.

Situation:

The Université de Pau et des Pays de l'Adour campus is located in the charming city of Pau in southwestern France in a region bordering Spain. It benefits from exceptional resources due to its geographical location, close to the Pyrenees (1h drive) and the Atlantic coast (1h drive), with numerous air links from the airport and trains to Paris.

The IPREM is a Joint Research Unit CNRS / UPPA (UMR 5254) with 120 permanent staff and 140 PhD and Post-docs.

Requirements:

We are seeking highly motivated postdoctoral research scientists with expertise in the analysis of (meta )genomics/(meta )transcriptomics data to work at IPREM. The ideal candidates should have a PhD in the fields of Bioinformatics or Computational Biology and microbial ecology, with research experience in NGS data analysis. A good background in microbial evolution and biostatistics would be appreciated.

Application procedure:

Send by e-mail to [beatrice.lauga@univ-pau.fr](mailto:beatrice.lauga@univ-pau.fr) and [Robert.duran@univ-pau.fr](mailto:Robert.duran@univ-pau.fr) an application file including:

- CV
- cover letter
- Candidate's PhD abstract and publications
- 2 letters of recommendation

Contact details (3 referees, including at least the PhD supervisor and the post-doc supervisor (if applicable))

Application deadline:

4th March 2021

Start

Available from April 2021

Béatrice LAUGA Professeur des universités

Master 2 Molecular Biology and environmental microbiology (BME) Coordinator Master 2 BME/BEH Double title UPPA (Pau)-Université d'Oviedo (Spain) Coordinator

IPREM - Institut des Sciences Analytiques et de Physico-Chimie pour l'Environnement et les Matériaux

IPREM UMR5254 - UPPA/CNRS Bâtiment IBEAS Allée Jean Loiseau BP 1155 64013 PAU CEDEX Tél : +33 5 59 40 79 65 Email : Beatrice.Lauga@univ-pau.fr

Beatrice Lauga <beatrice.lauga@univ-pau.fr>

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## PrincetonU AvianEggshellEvolution

The Department of Ecology and Evolutionary Biology at Princeton University invites applications for a postdoctoral research associate or more senior research position to work in the Stoddard Lab to investigate the evolution of avian eggshell structure. The position is part of a newly-funded collaborative grant that combines evolutionary and engineering approaches to investigate eggshell design across a broad range of avian species. The postdoctoral research associate will collect morphological, physiological, structural and optical data on eggs, assemble a data set of eggshell traits, and perform comparative analyses to investigate the evolution of eggshell design. The postdoctoral research associate will also use comparative genomics and bioinformatic approaches to explore the genetic basis of some eggshell traits. Finally, the postdoctoral research associate will work closely with other key members of the collaborative grant team, which includes mechanical engineers and materials scientists. Therefore, a strong interest in highly interdisciplinary work is essential, as is a strong quantitative background.

The Stoddard Lab uses an interdisciplinary approach to study animal coloration and morphology, with a focus on birds and bird eggs. For recent examples of research conducted by the Stoddard Lab, visit [www.marycstoddard.com](http://www.marycstoddard.com) . Required qualifications: \* A PhD in biology or a related field \* Expertise in phylogenetic comparative methods, statistics, programming and (highly preferred, see below) experience with one or

more of the following: avian eggs, physiology/structural biology/mechanics/microscopy, comparative genomics \* Excellent written and oral communication skills, shown by a strong publication record and presentations at conferences \* Excellent organizational, project management, data analysis and data management skills \* A strong interest in conducting interdisciplinary work as part of a collaborative team that includes mechanical engineers and materials scientists \* A strong quantitative background \* A strong interest in mentoring undergraduate and graduate students and broadening participation in STEM

Strongly recommended qualifications: \* Previous research on the evolution, structure and/or physiology of bird eggs \* Experience with physiology, biomechanics, materials science, morphology, structural and optical characterization (photography, spectrophotometry), and/or microscopy (scanning electron microscopy, micro-CT) \* Experience with comparative genomics approaches

The appointment is initially for one year, with the possibility of renewal based on satisfactory performance and funding. Salary is competitive and commensurate with experience, and benefits are included. This position is available as early as immediately and will be open until filled. This position is subject to the University's background-check policy.

Applicants must apply online at <https://www.princeton.edu/acad-positions/position/19201> and include a curriculum vitae, a one-page statement of research experience and interests, and a cover letter that includes names and contact information of three references.

Princeton University is an equal opportunity/affirmative action employer and all qualified applicants will receive consideration for employment without regard to age, race, color, religion, sex, sexual orientation, gender identity or expression, national origin, disability status, protected veteran status, or any other characteristic protected by law.

"mstoddard@princeton.edu"  
<mstoddard@princeton.edu>

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## Purdue University Giant Hornet Genomics

Postdoctoral position: Population Genomics of *Vespa mandarinia*

We are looking for a Postdoctoral Researcher to join the Harpur Lab at Purdue University (<https://beemolevo.com/>) to spearhead a highly-collaborative USDA-funded project exploring the diversity and divergence of populations of *V. mandarinia* and comparative genomics within the genus *Vespa*. The advertised position is a fixed-term of one year with the option to extend the position for up to two years. Salary will be determined based on experience but will range from \$48,000 - \$53,000 USD and include benefits. The starting date is June 2021 at the latest. While we prefer candidates who can work locally, we are very flexible with off-campus options, especially during the on-going pandemic.

Our nationally-funded research program generally focuses on the evolution of eusocial species and integrates field experiments, computational biology, and functional genetic approaches. In addition to the project above, the applicant will also have the opportunity to contribute to one or more established, ongoing, nationally-funded projects exploring connections between genotypes, phenotypes, and fitness in eusocial species. The successful applicant will have the latitude to work with the PI to develop one or more research projects in an area of mutual research interest. There are opportunities to provide mentorship to both undergraduate and graduate students. We value diversity of experience, knowledge, background and perspective and welcome applicants from various disciplines, including but not limited to evolutionary biology, data science, population genetics, and genomics. The applicant should have a PhD in a related field.

Contact: Interested candidates should contact Dr. Brock Harpur ( [bharpur@purdue.edu](mailto:bharpur@purdue.edu)) on or before March 1st, 2021. To be considered for this position send a C.V., contact information for three references and a half-page cover letter describing research interests and background (use email subject line: "Post-doc fellowship Harpur lab"). About Purdue University: Purdue University is an equal opportunity and affirmative action employer. Women, BIPOC, veterans, and persons with disabilities are strongly encouraged to apply. The Department of Entomology at Purdue is an integral

part of the College of Agriculture, one of the world's leading colleges of agricultural, food, life, and natural resource sciences, ranked eighth globally in the 2016 QS World University Rankings. The College is deeply committed to the three land-grant missions (teaching, research, and extension), to international activities and perspectives that span all missions. The College has 11 academic departments and includes 325 faculty, 2782 undergraduate students, and 690 graduate students. For more information on the Entomology Program, Purdue University and West Lafayette, Indiana see <http://www.purdue.edu/> and <http://www.homeofpurdue.com/> "bharpur@purdue.edu" <[bharpur@purdue.edu](mailto:bharpur@purdue.edu)>

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## QMUL London DNAmethylation Evolution

Two open post-doctoral positions in the laboratory of Dr. Alex de Mendoza at Queen Mary University of London (United Kingdom). These are European Research Council funded positions under the project METHYLEVOL, aimed at understanding the evolution of DNA methylation in animals and other eukaryotes. Both positions are for 2 years and can be extended.

For one of the postdoctoral positions, experience in molecular biology of cnidarian model systems (specifically *Nematostella vectensis*) is highly desired, including lab culture, genetic manipulation, spawning. Bioinformatics experience would be a plus. See more details here: <https://webapps2.is.qmul.ac.uk/-jobs/job.action?jobID=3D5631> For the other position, the candidate should have previous experience in bioinformatics, epigenomics, genome-analysis of gene regulation, evolution, and molecular biology techniques. See more details here: <https://webapps2.is.qmul.ac.uk/-jobs/job.action?jobID=3D5627> Applications close on March 18th and March 20th.

Potential candidates should not hesitate to get in touch with [a.demendozasoler@qmul.ac.uk](mailto:a.demendozasoler@qmul.ac.uk) to discuss your interest in the posts and the projects, even if you cannot make it to the deadline.

More information on the group, publications and research topics in the group can be found in the laboratory website: <https://www.demendozalab.com/> Queen Mary University of London and the School of Biological and Chemical Sciences are in the East End of London, and hosts a vibrant community of researchers with complementary expertise and state of the art facilities in



genomics and computational resources.

----- Alex de Mendoza Lecturer | Queen Mary University of London School of Biological and Chemical Sciences Mile End Road. Fogg Building 5.14 E1 4NS London UK

Lab website: <https://www.demendozalab.com/>  
"a.demendozasoler@qmul.ac.uk"  
<a.demendozasoler@qmul.ac.uk>

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## RIKEN Japan TheoreticalBiology

Call for applications: Special Postdoctoral Researcher (SPDR) program for FY 2022

RIKEN is currently accepting applications for the FY 2022 Special Postdoctoral Researcher (SPDR) Program, from early-career, creative, independent researchers.

The total number of hiring is about 60.

Deadline for registering basic information: Apr 8, 2021 (Japan Std Time) Deadline for revising or uploading application documents and letters of reference: 5 p.m., April 15 Thursday, 2021 (Japan Std Time) Research fields (in theoretical biology) to work at iTHEMS: - Ecology & Evolutionw/ Dr. Ryosuke Iritani - Biological Networksw/ Dr. Takashi Okada - Biological Clocksw/ Dr. Gen Kurosawa - Population Geneticsw/ Dr. Jeffrey Fawcett - Computational Virologyw/ Dr. Catherine Beauchemin

Details: <https://www.riken.jp/en/careers/programs/-spdr/career2022/> iTHEMS website: <https://-ithems.riken.jp/en> Contact information: <https://-ithems.riken.jp/en/contact> Ryosuke Iritani <lambtani@gmail.com>

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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

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 <maralawniczak@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). Further information: <https://tbg.senckenberg.de/personen/hiller/> The position is fully-funded. Salary and benefits are according to TV-H E13 100%. The position will be initially for 2 years, but funding is available to extend it further. The employer is the Senckenberg Society for Nature Research in Frankfurt am Main. Senckenberg supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference.

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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## Senckenberg Frankfurt Comparative Genomics Deadline Mar 15

### 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). Further information: <https://tbg.senckenberg.de/personen/hiller/> The position is fully-funded. Salary and benefits are according to TV-H E13 100%. The position will be initially for 2 years, but funding is available to extend it further. The employer is the Senckenberg Society for Nature Research in Frankfurt am Main. Senckenberg supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference.

Application deadline is March 15th 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

Janina Bocksch <janina.bocksch@senckenberg.de>

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## SGN Frankfurt PathogenEvolution

Job offer ref. #11-21003

The Senckenberg Gesellschaft für Naturforschung (SGN) is a member of the Leibniz Association and is based in Frankfurt am Main, Germany. SGN conducts natural history research with almost 800 employees and research institutions in six federal states. Within SGN, the Senckenberg Biodiversity and Climate Research Centre (BiK-F) explores the interactions between biodiversity, climate, and society. Senckenberg BiK-F invites applications for a

PostDoc Position (m/f/d) in the project Nanopore sequencing for decentralized pathogen identification (100%)

The position is in the research group of Professor Marco Thines at the Senckenberg Biodiversity and Climate Research Centre. The research conducted in this group spans a wide range of disciplines and topics including cell biology, ecology, evolutionary biology, genomics and plant-pathogen interactions of oomycetes. Their aim is to gain insights in the biodiversity of oomycetes and a deeper knowledge of the evolutionary processes that have shaped oomycete diversity and their biotic interaction.

You will initially work in the project: "Securing the future of agriculture through mobile, biopore-based, universal high-throughput sequencing for the detection of plant pathogens and parasites (AGRIFUTURE)", funded by the BMEL.

Your profile:

§PhD in evolutionary biology, ecology, bioinformatics, microbiology, or related field

§Strong publication record showing keen interest in nanopore sequencing

§Excellent communication and writing skills in English

§Bioinformatics skills, including NGS data analysis, e.g. de novo genome assembly, metabarcoding, metagenomics, transcriptomics

§Laboratory experience, e.g. DNA extraction, library construction

§Creativity, ambition, analytical and collaborative skills

Salary and benefits are according to a full-time public

service position in Germany (TV-H E13, 100%). The contract should start as soon as possible - ideally on March 15th, 2021 - and will initially be limited until 14.02.2024.

The Senckenberg Research Institutes support equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The place of employment is in Frankfurt am Main, Germany.

Please send your application, mentioning the reference of this job offer (ref. #11-21003) before February 28th, 2021 by e-mail (attachment in a single pdf document) and including a cover letter detailing research interests and experience, a detailed CV and a copy of your certification to: Senckenberg Gesellschaft für Naturforschung Senckenberganlage 25

60325 Frankfurt am Main

E-Mail: [recruiting@senckenberg.de](mailto:recruiting@senckenberg.de) For more information contact Prof. Marco Thines ([marco.thines@senckenberg.de](mailto:marco.thines@senckenberg.de)).

– Mit freundlichen Grüßen / Best Regards

Jessica Helm Personalsachbearbeiterin

Senckenberg Gesellschaft für Naturforschung (Rechtsfähiger Verein gemäß §22 BGB) Senckenberganlage 25 60325 Frankfurt am Main

Besucheradresse: Mertonstraße 17-21, 60325 Frankfurt am Main (1. OG)

Telefon/Phone: 0049 (0)69 / 7542 -

Leiterin Personal & Soziales - 1458 Loke, Uta

Stellv. Leiterin Personal & Soziales - 1319 Elsen, Carina

Team Recruiting - 1564 di-Biase, Maria - 1313 Helm, Jessica - 1478 Gajcevic, Isabel

Fax: 0049 (0)69 / 7542-1445

Direktorium: Prof. Dr. Klement Tockner, Prof. Dr. Andreas Mulch, RA/Syndikusanwalt Jan Henning Fahnster (komm.) , Prof. Dr. Katrin Böhning-Gaese, Prof. Dr. Karsten Wesche

Präsidentin: Dr. h. c. Beate Heraeus Aufsichtsbehörde: Magistrat der Stadt Frankfurt am Main (Ordnungsamt)

Mitglied der Leibniz-Gemeinschaft

[www.senckenberg.de](http://www.senckenberg.de)  
<[recruiting@senckenberg.de](mailto:recruiting@senckenberg.de)>

Recruiting

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## SmithsonianTropicalResInst PlantDiseaseGenetics

The Smithsonian Tropical Research Institute (STRI [www.stri.si.edu](http://www.stri.si.edu)) seeks a talented and highly motivated post-doctoral scientist to play a leading role in NSF-supported research comprising integrated field, lab, and informatics approaches. The project will examine how sharing resistance gene alleles affects transmission of soil microbial pathogens between neighboring tropical tree seedlings and adults, and consequent effects on seedling fitness. Results will provide new insights about the way genetic variation affects plant defense, plant-microbe interactions, and heretofore mechanistically unexplored processes such as plant-soil feedbacks and negative density dependence that are increasingly the focus of theoretical models of forest dynamics and the maintenance of tree species diversity. The project is situated in Panama at STRI, with annual visits planned to the USDA-ARS Culture Collection and to Penn State University to work with collaborators and for additional professional development and training opportunities. STRI is a lively, collaborative research community, with 37 Staff Scientists, a similar number of post-doctoral fellows, and over 1,200 international scientists visiting annually.

Candidates should have expertise in disease ecology, organismal biology and/or microbial ecology with strong laboratory skills involving molecular genetics. Training will be provided for planned experiments, with latitude for related independent research and professional development mentoring. The project provides 3 years of funding and we expect that the planned projects will provide opportunities for multiple lead author publications and ownership of future research directions. There are also funds to support travel to annual international meetings and visits to collaborator labs in the US. The location at the beginning of the project is flexible and will allow the individual to work at the USDA-ARS culture collection (K. Broders lab), Penn State (J. Marden lab) or work remotely prior to being able to safely travel to Panama. Ability to communicate with a wide range of people in a multicultural environment will be considered.

To Apply: Interested candidates should submit a single PDF file including cover letter, curriculum vitae, statement of research accomplishments and interests,

significant publications, and the names and contact information of three references to S. Joseph Wright at wrightj@si.edu. The position is open until filled; review of applications will begin on 1 April 2021.

STRI does not discriminate in employment on the basis of race, color, religion, sex (including pregnancy and gender identity), national origin, political affiliation, sexual orientation, marital status, disability, genetic information, age, membership in an employee organization, retaliation, parental status, military service, under-represented minorities or other non-merit factor. We are an Equal Opportunity employer, committed to diversity in our workforce.

“Wright, Joseph (Joe)” <WRIGHTJ@si.edu>

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## TexasAMU MormonCricket RNAi

Postdoctoral position RNAi-based Insect Control

The Song Lab (<https://schistocerca.org/SongLab/>) in the Department of Entomology at Texas A&M University is looking a postdoctoral scholar for a USDA PPA 7721 (Farm Bill) project to develop RNAi-based control methods for the Mormon Crickets, which are one of the most devastating orthopteran pests in the Western U.S.

The advertised position is a fixed-term of one year with the possibility to extend the position beyond the initial contract. Start date is negotiable, ideally in March-April 2021. Duties will depend on the strengths of the candidate, but will involve RNAi development and experiment, qPCR, as well as field work, writing manuscripts, and presenting at conferences. There will be a 3-week travel to Boise, Idaho for conducting experiments on freshly collected specimens (May-June). Salary will be commensurate with experience. Application deadline is February 28, 2021. For specific questions, please contact Dr. Hojun Song (hsong@tamu.edu).

To apply, visit: [https://tamus.wd1.myworkdayjobs.com/-AgriLife\\_Research\\_External/job/College-Station-AL-RSCH/Postdoctoral-Research-Associate\\_R-035305](https://tamus.wd1.myworkdayjobs.com/-AgriLife_Research_External/job/College-Station-AL-RSCH/Postdoctoral-Research-Associate_R-035305)

About the Community Texas A&M University main campus is located in College Station, which is part of a metropolitan community of over 200,000 people, including the city of Bryan. In addition to excellent health, education, and recreation services, the community affords a rich variety of cultural activities typical of a major university environment, including

museums, music, art, and theatre. College Station is within easy reach of some of the most cosmopolitan cities in the US about 90 minutes from Houston and its major international airport, and under 2 hours from Austin. The Department of Entomology (<https://entomology.tamu.edu/>) at Texas A&M University is one of the top entomology departments in the United States. Additionally, the interdisciplinary program in Ecology and Evolutionary Biology (<https://eeb.tamu.edu/>) provides an excellent opportunity to interact with a large community of ecologists and evolutionary biologists across different departments and colleges.

“hsong@tamu.edu” <hsong@tamu.edu>

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## TrentU PDF PhD CaribouGenomics

Post-Doctoral and Graduate Student Opportunities in Conservation Genomics

EcoGenomics is a national-scale collaborative research program based in Canada and focused on caribou conservation genomics. We are currently seeking post-doctoral fellows and graduate students to participate in a large-scale project funded by Genome Canada’s Genomic Applications Partnership Program and aiming at developing a national non-invasive monitoring approach for caribou.

Caribou is currently one of the most significant at risk species in Canada, attributable to its widespread distribution, its potential susceptibility to climate change, and its cultural and sustenance significance to Indigenous Peoples. Caribou population monitoring based on fecal pellet collection at feeding sites in winter has been proven as an effective sampling method for non-invasive long-term population monitoring. Host genetic information along with metagenomics data for diet and health indicators from fecal samples can gather a range of parameters needed to identify factors, including changing environmental conditions, affecting caribou populations across Canada. These positions will be supported by already generated data including a large number of whole-genome sequences of caribou representing populations of different evolutionary and demographic histories, targeted caribou-specific loci for Population Genomic surveys from a long-term database of samples (estimated at 40,000 across Canada) and metagenomics data (plant and microbiome). The large-scale national network supporting these positions, under the overall direction of Dr. Paul Wilson (Trent University) and Dr.

Micheline Manseau (Environment & Climate Change Canada/Trent University), include partnerships with the Canadian Forest Service, Laval University and the University of Manitoba; the National Boreal Caribou Knowledge Consortium, Parks Canada, provincial and territorial jurisdictions; wildlife management boards; and industry.

The following positions and areas of research interest are being recruited:

Post-doctoral fellow in conservation genomics (Dr. Wilson and Dr. Manseau, Trent University) with advanced experience in landscape genetics/genomics to focus on areas such as factors affecting population structure and population demographic status, adaptive potential of different caribou ecotypes and populations. This work will inform management decisions including the identification of critical habitat and protected areas, permitting of industrial activities, landscape restoration efforts, translocation or captive rearing conservation efforts.

Post-doctoral fellow in metagenomics (Dr. Christine Martineau, Canadian Forest Service and Dr. Arnaud Droit, Université Laval) with experience in developing and applying a metabarcoding approach targeting multiple taxonomic marker genes to characterize the caribou diet and microbiome in fecal pellets and relate these results to population parameters and landscape attributes. Experience with the analysis of shotgun metagenomics dataset would be an asset. This work will contribute to best practices in the design of sampling schemes for diet and microbiome surveys across caribou ranges and provide new indicators to monitor the recovery of caribou populations.

PhD students are also being recruited for questions relating to of Landscape Genomics, Spatial Structure/Network analysis, Population modelling and Adaptive Genomics.

Applicants should submit a CV, a statement of research interests, and names and contact information for three references. The positions will be filled as soon as suitable candidates are found.

Please submit applications to:

Ryan Vieira Research Program Manager, EcoGenomics, Trent University 1600 West Bank Drive, Peterborough, ON, K9J7B8 Email: ryanvieira@trentu.ca

Ryan Vieira <ryanvieira@trentu.ca>

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## UBordeaux EvolutionaryStatistics

Postdoctoral position in statistical ecology

The University of Bordeaux is recruiting a postdoctoral researcher with a statistics or quantitative ecology/evolution background to work on improving the identifiability of dynamic ecological models, with a focus on models describing the population dynamics of interacting species.

Model parameters are unidentifiable when several parameter values give rise to identical likelihoods, which causes frequent issues in nonlinear and/or dynamic models. While statisticians have long known about such difficulties [1, 2] these remain often neglected in the ecological and quantitative biology literatures, and have only recently become more mainstream [3, 4]. Ecological models of community dynamics, with several species interacting with each other, are particularly prone to identifiability issues since interactions between species greatly increase model dimensionality, making sometimes “inverse estimation” from population counts impossible. Combining multiple data streams in mechanistic models has been highlighted as a way forward to improve model identifiability [5, 6], especially in highly stochastic settings, bringing the philosophy of integrated population models [7] up to the community level.

The postdoc will work closely with Dr. Frédéric Barraquand at the Institute of Mathematics of Bordeaux. The postdoc position is part of a larger project where we plan to fit integrated predator-prey models for birds (collaboration with Olafur Nielsen, Icelandic INH; Olivier Gimenez, CNRS Montpellier) and explore the statistical properties of competitive/mutualistic models of primary producer communities (with Florian Hartig, University of Regensburg; Matteo Detto, Princeton University). The recruited postdoc will have opportunities, depending on her or his interests, to work on:

- formal aspects of identifiability of stochastic dynamical systems with interacting species
- developing software for assessing model identifiability and combining various datasets
- integrated model fitting on case studies or simulated data sets

We are looking for a researcher with a strong statistics and/or modelling skillset, able to work in a team. Proficiency in coding (e.g. R, C/C++) is expected and some applied bayesian statistics (e.g. in Jags or Stan)

would be very valuable. A good working knowledge of population dynamics or food web/competition models would be a plus.

The position is funded for 2.5 years (with salary based on experience) by a French National Research Agency grant to F. Barraquand. The position may start anytime from spring 2021 to late fall 2021. Informal enquiries are welcome. To formally apply, applicants should send a cover letter describing their interest in the position, a curriculum vitae, and name and contact information of three references (preferably by March 15, though the review of applications will continue until the position is filled). Contact: frederic.barraquand@u-bordeaux.fr

#### References

- [1] Rothenberg TJ (1971) Identification in parametric models. *Econometrica* 39:577-591. [2] Catchpole EA, Morgan BJ (1997) Detecting parameter redundancy. *Biometrika* 84:187-196. [3] Auger-Méthé M, et al. (2020) An introduction to state-space modeling of ecological time series. arXiv preprint arXiv:2002.02001. [4] Cole D (2020) Parameter Redundancy and Identifiability (CRC Press). [5] Barraquand F, Gimenez O (2019) Integrating multiple data sources to fit matrix population models for interacting species. *Ecological Modelling* 411:108713. [6] Barraquand F, Gimenez O (2021) Fitting stochastic predator-prey models using both population density and kill rate data. *Theoretical Population Biology* 138:1-27 [7] Besbeas P, Freeman SN, Morgan BJ, Catchpole EA (2002) Integrating mark-recapture-recovery and census data to estimate animal abundance and demographic parameters. *Biometrics* 58:540-547.

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 Frederic Barraquand Researcher CNRS - Institute of Mathematics of Bordeaux <https://sites.google.com/site/fredbarraquand/home>— Integrative and Theoretical Ecology Chair | U Bordeaux <https://itecologyresearch.github.io/> Frederic Barraquand <frederic.barraquand@u-bordeaux.fr>

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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 interac-

tions 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>

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## UCalgary ParasiteBioinformatics

The Wasmuth lab at the University of Calgary is looking for a postdoctoral scholar to join us on a two-year fully funded position. We use bioinformatics and genomics to understand the evolution of parasitism and host-parasite interactions. We have several large genomic datasets ready for immediate analysis and other emerging projects that require the skills and leadership of a talented Postdoc.

The appropriate candidate must have: 1. A PhD in bioinformatics or similar field and graduated since January 2019 (candidates who are close to their thesis exam will be considered) 2. Demonstrable expertise in the Python programming language 3. Demonstrable experience with genomic datasets, ideally from eukaryotes 4. Demonstrable experience using a large compute cluster, either local or cloud-based 5. Strong written and oral communication in English 6. At least one first author peer-reviewed publication 7. A commitment to uphold principles of equity, diversity and inclusion (EDI) in their work

The appropriate candidate would benefit from having: 1. Expertise in phylogenetics, beyond using a web server with default parameters 2. Experience with bioinformatics workflow software, e.g. Nextflow or Snakemake 3. A willingness to supervise undergraduate students for summer or thesis projects.

Start date: Summer 2021 (negotiable) with the opportunity to work remotely during COVID-restrictions.

We recognise that diverse lab colleagues enrich our work and lives. I encourage applications from all qualified people.

The University of Calgary is a living, growing and youthful institution that embraces change and opportunity with a can-do attitude. We inspire and support discovery, creativity and innovation across all disciplines. The University of Calgary is situated on the traditional lands of people of Treaty 7 in Southern Alberta. The City of Calgary is also home to the Métis Nation of Alberta, Region III. Calgary is home to 1.2 million people and frequently named one of the world’s most livable cities. It is the gateway to the Canadian Rockies with its year-round attractions. For more information about postdoc life at UCalgary, visit <https://research.ucalgary.ca/postdocs> .

Please submit your application to [jwasmuth@ucalgary.ca](mailto:jwasmuth@ucalgary.ca) as a single PDF file that includes: i) a cover letter (maximum two pages) explaining how you fit all the points above, ii) a current CV, iii) a URL to your PhD thesis or examination date, iv) URLs to your publications and GitHub or other software repository.

Only those applicants selected for interview will be contacted further.

James Wasmuth PhD Associate Professor, Parasite Genomics Faculty of Veterinary Medicine University of Calgary

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## UGlasgow ComparativeVirology

The Streicker lab at the University of Glasgow has an opportunity for a postdoctoral Research Assistant to contribute to a Leverhulme Trust funded project titled “Generalizing understanding of viral emergence using large-scale comparative data” working with Dr. Daniel Streicker and Dr Nardus Mollentze. The postholder will use cutting edge computational tools to mine public genomic data and the scientific literature and will use these newly assembled datasets to conduct meta-analyses on a variety of topics related to viral diversity and virulence across host taxa. The successful candidate will also contribute to the formulation and submission of research publications and research proposals.

This is a Grade 6 Postdoc (salary range 29,176 to 32,817, depending on experience), which would normally suit candidates near completion of their PhD or graduates with little postdoctoral experience.

The Streicker lab ([www.streickerlab.com](http://www.streickerlab.com)) forms part of the Institute of Biodiversity, Animal Health & Comparative Medicine and the MRC-University of Glasgow Centre for Virus Research, which together provide an excellent cross-cutting environment for quantitative, field and laboratory-based research on viruses. Both institutions hold Athena SWAN Silver departmental awards, demonstrating commitment to best practice in recruiting and supporting the career development and progression of female scientists, addressing gender inequalities in higher education. Our work focuses on understanding and preventing viral cross-species transmission. Research spans longitudinal field studies and experiments in wild bats in Peru, viral phylogenomics and metagenomics, and comparative studies using machine learning and meta-analysis. This position supports that final branch of in silico research.



Our recent articles on this topic include: Streicker, D.G. and Gilbert, A.T. (2020) Contextualizing bats as viral reservoirs. *Science* <https://doi.org/10.1126/science.abd4559> Mollentze, N. & Streicker, D.G. (2020) Viral zoonotic risk is homogenous among taxonomic orders of mammalian and avian reservoir hosts. *Proceedings of the National Academy of Sciences* <https://doi.org/10.1073/pnas.1919176117> Mollentze, N., Streicker, D.G., Murcia, P.R., Hampson, K., Biek, R. (2020) Virulence mismatches in index hosts shape the outcomes of cross-species transmission. *Proceedings of the National Academy of Sciences* <https://doi.org/10.1073/pnas.2006778117> Babayan, S., Orton, R.J. & Streicker D.G. (2018) Predicting Reservoir Hosts and Arthropod Vectors from Evolutionary Signatures in RNA Virus Genomes. *Science* <https://doi.org/10.1126/science.aap9072> Applications will be accepted until 24 February Apply here -> <https://www.jobs.ac.uk/job/CDV811/research-assistant> – Daniel Streicker, PhD Wellcome Trust Senior Research Fellow Institute of Biodiversity, Animal Health and Comparative Medicine MRC-University of Glasgow Centre for Virus Research University of Glasgow +44 (0) 141 330 6632 & 2196 | [daniel.streicker@glasgow.ac.uk](mailto:daniel.streicker@glasgow.ac.uk) | [www.streickerlab.com](http://www.streickerlab.com) | @DanielStreicker

Daniel Streicker <[Daniel.Streicker@glasgow.ac.uk](mailto:Daniel.Streicker@glasgow.ac.uk)>

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## U Glasgow ReproductiveModeEvoDevo

We have a research opportunity open at the University of Glasgow's Institute of Biodiversity, Animal Health & Comparative Medicine (IBAHCM) working in the Evolutionary Analysis Group and the research team of Kathryn Elmer and in collaboration with Maureen Bain (IBAHCM-Vet School) and with project partner Jean Clobert (CNRS Moulis, France).

We are seeking a motivated, creative, and enthusiastic postdoctoral researcher for a project on the genetic basis of oviparous and viviparous reproductive modes, funded by NERC. The project will advance reproductive biology by using rigorous experimental tests and functional evolutionary genomics to reveal the molecular basis of reproductive mode evolution and scrutinise a putative reversal. This will be accomplished using the powerful natural framework of a species (the common lizard) with both reproductive modes. The research aims to identify gene expression and describe ultrastructural features

of reproductive tissue; determine the genetic basis of gene expression regulation; and reconstruct the genome-wide evolutionary history across all extant lineages. The project will likely involve some periods of research stay in Moulis. Related side-projects are also possible and supported.

A strong track record of evolutionary and/or developmental biology and/or genetic research is necessary, and on vertebrates (or even squamates) is a benefit. The ideal candidate will have a weight of experience in developmental biology (some of in situ hybridisation, histochemistry, microscopy, etc) AND/OR in evolutionary genomics and biology (some of comparative genomics, transcriptomics, genetics) AND/OR reproductive physiology or biology.

Animal husbandry and molecular lab work experience would be valuable; fieldwork skills would be advantageous. Team working and collaborative attitude are a must.

The position is for 3 years, with flexible start date in spring/summer 2021 (preferred 1 June 2021). The position is open at grade 6 (early postdoc; research assistant) or grade 7 (more experienced postdoc; research associate).

International applicants will be eligible for a UK work visa supported by the University of Glasgow. We strive to be a supportive environment and welcome a diversity of applicants!

IBAHCM is a stimulating and interactive research environment with a wealth of opportunities for discussion, collaboration, and cutting edge research in evolution, ecology, and animal health. The University of Glasgow ranks in the world's top 100 universities and just won the Top University award from the Times Higher Education. The University and IBAHCM are both recognised with Athena SWAN awards and are committed to supporting career progression. The city of Glasgow is lively and cultural, and sits on the doorstep of the great outdoors of the Scottish Highlands, islands, and coast.

The official job description and application requirements are available on the University of Glasgow homepage under current vacancies. [https://my.corehr.com/pls/uogrecruit/erq\\_jobspec.version\\_4.jobspec?p\\_id=049385](https://my.corehr.com/pls/uogrecruit/erq_jobspec.version_4.jobspec?p_id=049385) Please outline how you meet each of the essential/desirable criteria listed in the job advert. We do not expect candidates to meet all criteria, but do please emphasise your relevant experience and skills.

\*\*The advertisement closes 05 April 2021.\*\*

Informal email inquiries to Kathryn in advance are very welcome: [kathryn.elmer@glasgow.ac.uk](mailto:kathryn.elmer@glasgow.ac.uk)

@DrKathrynElmer <http://www.gla.ac.uk/-researchinstitutes/bahcm/staff/kathrynelmer/>  
Kathryn Elmer <Kathryn.Elmer@glasgow.ac.uk>

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## Ullinois BehavioralGenomics

Alison Bell's lab at the University of Illinois at Urbana Champaign is looking for postdocs to work on genomic, molecular and/or neural mechanisms of paternal care in threespine sticklebacks. Candidates with experience in single cell transcriptomics, brain injections, functional manipulations, and/or viral-mediated delivery of transgenic constructs are especially encouraged to apply. A strong background in neurobiology, molecular biology, genomics, behavioral ecology and/or evolution is preferred.

Successful candidates will have a PhD, a strong track record of publications in internationally peer-reviewed scientific journals and a willingness to work in a collaborative environment.

Start date is flexible. Review of applications will begin April 15. Interested applicants should send a CV, 2-3 relevant publications, contact information for three references and a brief, one page research statement of interests related to ongoing work in the Bell lab to alisonmb@illinois.edu with Postdoc search: <<YOUR NAME>> in the subject line. To learn more about work in the Bell lab, see <https://alisonbelllab.web.illinois.edu>

The Bell lab is committed to broadening participation in STEM and is looking for people who share that vision and who are committed to diversifying science.

"Bell, Alison Marie" <alisonmb@illinois.edu>

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## ULausanne Switzerland 3 EvolutionArthropodMoultng

Dear all,

If you know of students looking for Postdoc opportunities we are looking for several people to join our collaborative project investigating arthropod moulting with an emphasis on genome sequencing, assembly, annotation, and comparative analysis and paleontology. Please spread the word far and wide, e.g. if you're on Twitter

retweets would be very much appreciated - THANK YOU!

=> Post doc 1 will focus on data integration and building a database of moulting characteristics, which will form the basis of much of the research project, under the supervision of Prof Marc Robinson-Rechavi ([https://twitter.com/marc\\_rr](https://twitter.com/marc_rr)). => Post doc 2 will study moulting characteristics in a range of arthropods and examine comparative gene expression throughout the moulting process, under the supervision of Ariel Chipman in Jerusalem (<https://twitter.com/ChipmanLab>). => Post doc 3 will conduct research on the paleontology of terrestrialisation, under the supervision of Prof Allison Daley (<https://twitter.com/cambriancritter>).

Postdocs: <https://jobrxiv.org/job/university-of-lausanne-27778-postdoctoral-research-positions-examining-arthropod-moultng/> Many thanks, Rob

<https://twitter.com/rmwaterhouse> \ Robert M. Waterhouse O0o- [www.rmwaterhouse.org](http://www.rmwaterhouse.org) " SNF Prof & SIB Group Leader Univ. Lausanne +41 21 692 41 05  
robert.waterhouse@gmail.com

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## UMaryland EvolutionaryGenomics Feb2021

The Fritz lab is seeking a post-doc to study the evolutionary and quantitative genomic basis of mosquito host preference. The job posting can be found at:

[http://www.meganfritzlab.com/uploads/1/0/0/-9/100940634/position\\_announcement-fritz\\_postdoc\\_jan2021.pdf](http://www.meganfritzlab.com/uploads/1/0/0/-9/100940634/position_announcement-fritz_postdoc_jan2021.pdf) Megan Fritz

Assistant Professor of Entomology University of Maryland 4291 Field House Dr. Plant Sciences Bldg. Rm. 3126 College Park, MD 20742 Office Phone: 301-405-3945 Website: [www.meganfritzlab.com](http://www.meganfritzlab.com) Twitter Handle: @MosquitoDoc

Megan Lindsay Fritz <mfritz13@umd.edu>

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## UMaryland EvolutionaryGenomics Feb2021UMaryland EvolutionaryGenomics Feb2021

A Postdoctoral position is offered at the Free University of Bozen-Bolzano (Italy) within the newly founded Competence Centre for Plant Health. The position is initially funded for one year with the possibility of an extension up to a total of three years.

The Free University of Bozen-Bolzano is located in one of the most fascinating European regions, at the crossroads between the German-speaking and Italian cultures. Its trilingualism in teaching and research, its high level of internationalisation as well as an ideal study environment guaranteed by its excellent facilities are some of the reasons why unibz regularly reaches top positions in national and international rankings. The Competence Centre for Plant Health is a newly founded joint institution which consists of several research groups in the field of Biology, Agricultural Sciences and Engineering. <https://www.unibz.it/en/home/research/-competence-center-plant-health/> We are looking for an enthusiastic candidate with a strong background in insect ecology and evolution. Competences with ecological studies, collection and handling of insects as well as experience with molecular genetic methods, next generation sequencing and bioinformatics are required.

General requirements for the position: PhD degree in Agricultural Sciences, Agricultural Biotechnology, Ecology and Evolution with a multidisciplinary profile. The candidate should have excellent communication skills and should be fluent in English.

The project is expected to start in April 2021, but the starting date is negotiable.

Application deadline is 12.02.2021

For informal inquiries, and for questions about the hiring process, please contact Tanja Mimmo [planthealth@unibz.it](mailto:planthealth@unibz.it).

All documents for the application procedure can be found here: <https://www.unibz.it/en/home/position-calls/positions-for-academic-staff/5027-allgemeine-und-angewandte-entomologie-prof-mimmo?group=SchulerHannes> <[Hannes.Schuler@unibz.it](mailto:Hannes.Schuler@unibz.it)>

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## UMass Boston EcolEvolution

The Vidal Lab at UMass Boston invites applications for a postdoctoral position on the ecology and evolution of species interactions. The lab currently has two active research programs: 1) a currently NSF-funded, collaborative project to study the evolution of diet breadth of a generalist caterpillar, fall webworm, and 2) collaborative research investigating the community and evolutionary ecology of multi-species mutualisms using a synthetic mutualism lab system based on strains of brewer's yeast. A researcher interested in understanding broad questions in the ecology and evolution of species interactions would fit well in this position. You can learn more about research conducted at the Vidal Lab here: [vidallab.weebly.com](http://vidallab.weebly.com)

Preferred start date: May or June 2021 (circumstances allowing).

Qualifications:

PhD in Ecology, Evolutionary Ecology, Community Ecology, Evolutionary Biology or a closely related field is required. Hands-on experience with rearing and handling insects. Experience with molecular techniques (e.g., DNA extraction, PCR, primer design, sequencing) and data analysis. Proficiency in basic microbiology skills such as making solutions, culturing microorganisms, and sterile technique is preferred, but not necessarily required. Experience in integrating data from field observations and experiments to answer questions related to community dynamics and species interactions. Applicants should have demonstrated knowledge of concepts and theories related to species interactions, with preference for insect-plant interactions, tri-trophic interactions, and mutualism. Strong publication record is preferred.

Please direct any questions to Dr. Mayra Vidal ([mayra.cadorinvidal@umb.edu](mailto:mayra.cadorinvidal@umb.edu)) and view full job description and apply at <https://-employmentopportunities.umb.edu/boston/en-us/job/-507325/post-doctoral-research-fellow> Mayra C. Vidal, PhD

Assistant Professor Department of Biology University of Massachusetts Boston 100 Morrissey Blvd. Boston, MA 02125, USA.

Pronouns: she, her, hers <http://vidallab.weebly.com/>  
[mayracvidal@gmail.com](mailto:mayracvidal@gmail.com)

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## UMichigan EvolGenomicsLifeHistory

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) 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>

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## UMichigan HostParasiteInteractions

Two postdoctoral positions focusing on host-symbiont interactions in inland lakes are available in Meghan Duffy's lab at the University of Michigan. We study the ecology and evolutionary biology of host-parasite interactions, using the aquatic crustacean *Daphnia* and their microparasites as a model system.

There is a lot of flexibility in terms of what successful applicants can work on, and postdocs will be encouraged to develop projects that are well-suited to their strengths and interests. Some themes of ongoing work in the lab include: \* characterizing the diversity of symbionts in zooplankton in inland lakes \* understanding the drivers of shifts between mutualism & parasitism \* investigating the ecosystem-level impacts of shifts along a mutualism- parasitism gradient \* discovery of the factors that allow parasites to move between host species \* characterization of the distribution of parasites in the water column of lakes \* interactions between symbionts (including parasites) within host individuals and at the population level \* how host diversity influences parasitism \* impacts of predators on host-parasite interactions \* how symbionts alter *Daphnia* interactions with phytoplankton, and \* how phytoplankton influence *Daphnia*-symbiont interactions.

Responsibilities: The successful candidates for these positions will be expected to carry out independent research relating to aquatic symbiosis, using *Daphnia* and their symbionts (especially their microparasites) as a model system. Projects will be developed based on the strengths, interests, and expertise of the successful candidates. The projects will likely involve field and lab work. Depending on interest and abilities, postdocs will also have the ability to work on mathematical modeling

of disease. These positions will also involve mentoring of undergraduate researchers in the lab.

**How to Apply:** Interested individuals should send a CV, a brief description of research accomplishments and future goals, and the names and contact information for 3 references to Meghan Duffy by e-mail (duffymeg at umich dot edu). Review of applications will start on March 1, 2021 and will continue until the position is filled.

**Required Qualifications:** PhD (by start date) with experience in aquatic ecology, disease ecology, community ecology, eco-evolutionary dynamics, evolutionary ecology, microbiology, protistology, mycology, or a related field.

**Desired Qualifications:** Experience working with *Daphnia* and/or isolating parasites from the field would be beneficial, but is not required.

**Other information:** Preference will be given to applicants who can start by mid-summer 2021, though start dates as late as Fall 2021 are possible. Funding is available for each postdoc for at least two years, but is contingent on satisfactory progress in year one. The anticipated starting salary for the positions is \$48,500 per year plus benefits.

The University of Michigan is an equal opportunity / affirmative action employer.

Meghan Duffy <duffymeg@umich.edu>

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## UOklahoma MicrobialEvolution

**Title of Position:** Postdoctoral Fellow - Microbial Physiology  
**Earliest start date:** Open, first interviews expected by April 1st, 2021

**Salary:** ~55K plus fringe.

Position requires a PhD in Life sciences (preferably Microbiology, Cell Biology, or Molecular Biology) or related fields. The fellow will join the Laboratories of Molecular Anthropology and Microbiome Research (LMAMR.org), an inter-disciplinary team of molecular anthropologists and microbiologists in exploring the diversity and scale of antibiotic resistance in human-associated microbial ecologies. Potential research projects include isolation and characterization of antibiotic resistant microbes from non-industrial human populations, and the identification and validation of novel genomic determinants of antibiotic resistance.

The ideal candidate will have a strong background in microbial cultivation, functional characterization (cloning, gene knockout/complementation), and basic molecular techniques (DNA/RNA extraction, PCR, RT-PCR). Preference will be given to candidates with prior experience in antibiotic resistance and/or anaerobic techniques.

The fellow will receive extensive training in high-throughput microbiome characterization, bioinformatic approaches (comparative genomics, microbiome informatics, phylogenomics), and ecological/evolutionary theory.

Complete the application at <https://apply.interfolio.com/79708> with Cover Letter and complete CV (with references) Job Number 79708

**Direct Link:**

<https://apply.interfolio.com/79708> For additional questions, contact

Dr. Cecil M. Lewis, Jr.

Email: cmlewis@ou.edu

With subject line: ATTN - Postdoctoral Fellow - Microbial Physiology

“Lewis, Cecil M. Jr.” <cmlewis@ou.edu>

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## UPittsburgh MicrobialComparativeGenomics

**POSTDOC:** Comparative genomics of bacterial pathogens (University of Pittsburgh)

The Wright Lab (<http://wrightlabscience.com>) is seeking a postdoctoral associate to lead a project aimed at analyzing tens of thousands of genomes belonging to bacterial pathogens. The successful candidate will apply evolutionary principles to uncover determinants of pathogenicity and antibiotic resistance across multiple species. The project will involve applying cutting-edge algorithms to a dataset consisting of over ten thousand pathogens with known genotypes and phenotypes. Analyses include detecting (1) HGT, (2) genotypes underlying phenotypes, (3) new non-coding RNAs, (4) selection pressure (dN/dS), and (5) compensatory mutations. This research provides the opportunity to apply tools at the forefront of bioinformatics to tackle infectious diseases in the clinic.

The Wright Lab is a multi-disciplinary hybrid wet/dry

lab at the University of Pittsburgh. We are part of a broader effort to make the University of Pittsburgh a leader in applying evolution to the improvement of medicine (<https://www.cebam.pitt.edu>). The university consistently ranks in the top 10 nationally for biomedical research funding.

**QUALIFICATIONS:** Qualifications for this position include a PhD in science or engineering and the motivation to learn new skills.

**TO APPLY:** Please send a cover letter and CV to <eswright@pitt.edu>. The position starts as early as May 2021.

Erik Wright Assistant Professor Department of Biomedical Informatics University of Pittsburgh, School of Medicine Pittsburgh, PA <http://www.dbmi.pitt.edu/person/erik-s-wright-phd-ms> “Wright, Erik Scott” <ESWRIGHT@pitt.edu>

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## USouthernCalifornia HumanMedicalPopGenetics

A postdoctoral research position is available in the lab of Dr. Charleston Chiang in the Center for Genetic Epidemiology, Department of Preventive Medicine at the University of Southern California, Keck School of Medicine. The Chiang lab utilizes cutting-edge analytic tools to address questions at the intersection of human medical and population genetics. In particular, we have a strong interest in using genomic data to understand the evolution and architecture of complex traits and the history of diverse human populations. These insights will be critical for future medical genetics studies and in practicing personalized medicine.

The successful candidate will have substantial input in the nature and the direction of the ongoing research projects within the lab and will be encouraged to explore projects that broadly fit within the lab’s goals of learning about demographic history or natural selection from genetic variation data, or understanding genetic architecture and evolutionary history of complex traits. Opportunities are available to analyze large-scale genotyping and next-generation sequencing data in humans from diverse populations. Additional information about our lab and research can be found at: <http://chianglab.usc.edu>. The Center for Genetic Epidemiology is closely linked with the Departments of Preventive Medicine, Translational Genomics, and

Quantitative Computational Biology. The Department of Preventive Medicine is one of the nation’s leading research programs in epidemiology and biostatistics, with particular expertise in genetics research in diverse populations. The Departments of Translational Genomics and Quantitative Computational Biology provide key technological, methodological and statistical supports of genetics research. Together, these Departments offer exceptional resources and collaborative opportunities for postdoctoral fellows. In particular, we work closely with research groups focusing on genetic epidemiology, statistical and functional genomics, and population genetics.

The position is available for 2 years, renewable annually contingent on successful progress and available funding. Extension beyond the 2nd year also possible. Remote working is expected initially during COVID, and negotiable afterwards when the condition is safe to return to work. Salary will be competitive. The University of Southern California offers a competitive benefits package including medical, dental, vision, life insurance, accidental death and dismemberment insurance, and short and long term disability insurance.

Candidates should have a recent Ph.D. in biology, genetics, computer science, bioinformatics, computational biology, or a related field. Proficiency in one or more programming languages (e.g. python, perl, C++, R, etc.) and in Unix-based computing environments is essential. Competitive applicants will also have extensive experience in conducting human genetics or population genetics research and analyzing large genetic datasets, and the desire to apply for external fellowship funding. Preference will be given to candidates with a strong publication record, evidence of substantial research productivity, and ability to successfully communicate scientific information.

Review of applications will begin immediately and will continue until the position is filled. The position is expected to start in Spring or Summer 2021, though specific dates are negotiable.

Interested candidates should submit a CV, short (1-2 pages) cover letter describing your research interests and fit within the lab, and contact information for 2-3 references. Informal inquiries are also welcomed and should be addressed to Dr. Charleston Chiang at [charleston.chiang@med.usc.edu](mailto:charleston.chiang@med.usc.edu).

– Charleston W. K. Chiang, Ph.D.

Assistant Professor of Preventive Medicine Center for Genetic Epidemiology Keck School of Medicine Assistant Professor of Quantitative & Computational Biology University of Southern California <http://chianglab.usc.edu>

Twitter: @CharlestonCWKC

“Chiang, Charleston” <Charleston.Chiang@med.usc.edu>

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## UTexas Austin MolecularEvolution

The Havird Lab at the University of Texas at Austin is looking for an enthusiastic and motivated postdoctoral researcher to begin in the Summer or Fall 2021. Post-docs will have the opportunity to develop independent projects that complement research themes in the lab on molecular evolution, cytonuclear interactions, and environmental physiology.

Of particular interest are applicants with experience analyzing next-gen sequencing data in the context of population genomics or mutation rate analyses. However, the position is not dedicated to fulfilling the goals of a particular grant.

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

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

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

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

Justin Havird <[jhavird@utexas.edu](mailto:jhavird@utexas.edu)>

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## UWisconsin Madison PopulationGenomics

The research group of John Pool at the University of Wisconsin - Madison invites applications for a postdoctoral research position. There are multiple potential project areas, with an overarching theme of addressing big questions in population/evolutionary genetics. I'd like to give the successful candidate for this position a strong voice in shaping their research direction in the lab.

The Pool Lab has a longstanding emphasis on the Genetic Architecture of Adaptive Evolution and an emerging focus on the Genetic Architecture of Early Stage Reproductive Isolation. While the range of potential projects is fairly broad, I am especially interested in prospective postdocs who might like to establish new research directions in one of the following areas:

\* Estimating Adaptive Potential from Genomic Variation It is widely recognized that genetic diversity is a primary determinant of whether populations can rapidly adapt to new challenges. Yet despite its relevance to basic evolutionary biology and conservation, our understanding of adaptive potential is still quite lacking. Our lab is interested in which types of genetic diversity are most important for adaptive potential (e.g. neutral vs. adaptive variation) and how best to estimate adaptive potential within and among populations.

\* Fundamental Population Genetic Inference from Population Differentiation We are interested in leveraging large data sets (such the >1000 genomes from our Drosophila Genome Nexus) to ask foundational population genetic questions. Most relevant studies have only considered data from a single population, whereas we are especially interested in utilizing genetic differentiation between populations to address classic but unresolved questions about the influence of natural selection on genomic diversity, such as the relative importance of selective sweeps and background selection.

Our research group was founded 9 years ago and currently includes 1 postdoc and 4 graduate students. I have also advised 5 former postdocs, and the publication records of Amir Yassin and Justin Lack show what a productive environment our lab can be. I also welcome postdocs taking important components of our research with them when they found their own labs. Fur-

ther lab info: <http://www.johnpool.net> UW-Madison offers a superb scientific environment with a supportive, collaborative, and egalitarian culture. Many labs focus on population genetics, evolutionary genomics, and Drosophila research: <https://evolution.wisc.edu/people/faculty/> <https://genetics.wisc.edu/drosophila-and-other-insects/> Madison offers an exceptional quality of life in a beautiful landscape, and has been ranked as the best US city for young adults. Downtown and campus are bordered by lakes, and Madison features diverse art, music, cultural, and culinary offerings. <http://www.visitmadison.com/media/rankings/> I am highly interested in adding to the diversity of our lab in a broad sense, including gender balance, cultural perspectives, and intellectual backgrounds and skill sets.

To apply, send a statement of research interests (up to 1 page) addressing the intersection between your own scientific interests and the Pool lab's research in terms of potential projects, along with a CV and contact info for 3 references.

Start dates are flexible. Salary follows the NIH scale. Individual or family health insurance is offered.

Applications are due March 8. However, earlier applications are welcome, and later applications may still be considered. Informal pre-application inquiries (e.g. to discuss potential research topics) are also welcome at any time.

John Pool Associate Professor Laboratory of Genetics  
University of Wisconsin - Madison

John E Pool <jpool@wisc.edu>

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## UWisconsin Madison VirusGenetics

Subject: Postdoc: UW-Madison.VirusGenetics

Postdoctoral opportunity at Wisconsin Preliminary applications due 20 Feb 2021 for June 2021 start

The GEOPop Grand Challenge

A key challenge of biology is to map interactions between genomes (G) and their environments (E) to predict fitness correlates of an organism (O) and ultimately forecast population-level (Pop) ecological and evolutionary dynamics; this is the GEOPop grand challenge. Recent advances in computational modeling and high-throughput quantitative phenotyping have set the stage to address this challenge; machine-learning can now establish sequence-to-function models for individual genes

[1], biophysical modeling can integrate multiple gene functions in different environments to predict growth and correlates of fitness [2], and genome-wide rates of spontaneous mutation can reveal evolutionary potential [3]. To pursue the GEOPop challenge for viruses, a team at the University of Wisconsin-Madison is forming around a core of computational and experimental investigators: Philip Romero (biochemistry), Nathaniel Sharp (genetics), and John Yin (systems biology of viruses).

We seek candidates for a postdoctoral traineeship to join the GEOPop team. The strongest applicants will possess experience and publications in two or more of the following areas: machine learning of biomolecular structure/function, mathematical modeling of biophysical processes; high-throughput molecular or virus phenotyping, deep mutational scanning, protein engineering, molecular virology; or evolutionary genetics, population genetics.

This postdoctoral trainee has potential to be supported through opportunities at the University of Wisconsin-Madison; applicants must be U.S. citizens or hold permanent resident status. To apply, submit a CV, cover letter, and contact info for three references to [john.yin@wisc.edu](mailto:john.yin@wisc.edu) by 20 Feb 2021 for full consideration. Women, minorities, and others who are underrepresented in science, technology, engineering, and mathematics, are especially encouraged to apply.

1. Song H, Bremer BJ, Hinds EC, Raskutti G, Romero PA: Inferring protein sequence-function relationships with large-scale positive- unlabeled learning. *Cell Systems* 2021, 12(1):92-101. e108. 2. Yin J, Redovich J: Kinetic Modeling of Virus Growth in Cells. *Microbiology and Molecular Biology Reviews* 2018, 82(2). 3. Sharp NP, Sandell L, James CG, Otto SP: The genome-wide rate and spectrum of spontaneous mutations differ between haploid and diploid yeast. *Proceedings of the National Academy of Sciences* 2018, 115(22):E5046-E5055.

NATHANIEL SHARP <nathaniel.sharp@wisc.edu>

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## VanderbiltU ImmuneSystemEvoGenomics

Postdoctoral Scholar Position: Immune system evolutionary genomics, theory

The Tate lab in the Department of Biological Sciences at Vanderbilt University (Nashville, TN, USA) is



recruiting a Postdoctoral Scholar interested in evolutionary immunology and host-microbe coevolution to work on an NIH-sponsored project (award R35GM138007). See the full ad here: [https://cdn.vanderbilt.edu/vu-my/wp-content/uploads/sites/2349/2021/02/18183048/Postdoc\\_Advert\\_Spring21.pdf](https://cdn.vanderbilt.edu/vu-my/wp-content/uploads/sites/2349/2021/02/18183048/Postdoc_Advert_Spring21.pdf)

About the position: The Postdoctoral Scholar will investigate the constraints and trade-offs that shape the evolution of immune signaling networks in insects and other organisms using evolutionary genomics approaches, mathematical and computational modeling, or both, depending on the interests and skill-set of the postdoc.

Potential research questions include:

1. Across insect taxa, how do evolutionary pressures from parasites interact with host development to shape the genetic architecture and deployment of immune systems?
2. How does immunological variation influence the co-evolutionary trajectories of hosts and parasites?
3. What should an “optimal” immune system look like, and can theoretical predictions explain variation across a broad range of taxa from plants to insects to humans?

The postdoc will have flexibility to develop independent lines of research during their appointment. Ideal candidates will be comfortable conducting research with a high degree of independence, learning new methods, writing manuscripts, and presenting their work at conferences. The postdoc should be willing to co-mentor undergraduate and graduate students, and bring a collaborative and collegial spirit to the lab. The position is available as early as Spring 2021, although the start date is negotiable. The postdoc may begin the position remotely, subject to HR approval.

About the lab: The Tate Lab is a collegial group of students, postdoctoral fellows, and staff studying the evolutionary ecology and systems biology of infection and immunity by integrating computational methods with experiments in insects. We value collaboration, cohesiveness, and inclusivity. The lab prioritizes development of trainees’ career and professional skills. More about our group can be found on our webpage: <https://my.vanderbilt.edu/tatelab/> About the institution: The Department of Biological Sciences contains a highly collaborative set of research labs with particular strengths in evolution, molecular biology, and genetics. The Tate Lab is affiliated with the Center for Evolutionary Studies, the Institute of Infection, Immunology and Inflammation (VI4), and the Data Science Institute, which connect and provide resources to researchers with similar interests across Vanderbilt University and

Medical Center. The Vanderbilt Office of Biomedical Research and Training provides an array of resources for the career development of Postdoctoral Scholars, and hosts an active Postdoctoral Association. Vanderbilt is a renowned private R1 research institution founded in 1873 and located in the heart of Nashville, Tennessee. Nashville is internationally recognized for its music and culinary scene, and is surrounded by state parks and other opportunities to escape into nature.

Required qualifications: A Ph.D. in a biological or related discipline (or firm expectation of receiving one prior to starting the position).

Preferred qualifications: A background in evolutionary biology and previous experience in genomics AND/OR computational modeling is strongly preferred. The candidate should be creative and self-motivated, have strong oral and written communication skills, and be collegial and collaborative. The candidate should have a track record of scientific publications (pre-prints are acceptable) and conference presentations commensurate with career stage.

Compensation: Full salary and benefits will be provided. The initial appointment will be for one year, with the expectation of renewal in subsequent years depending upon satisfactory performance.

How to apply: Please send a CV and a cover letter (1-2 pages) describing research interests and experience, future career goals, and reason for interest in this particular position. Please include the contact information for three academic references at the end of the cover letter. Using the email header “Postdoc position interest,” please send these materials to [a.tate@vanderbilt.edu](mailto:a.tate@vanderbilt.edu). Review of applications will begin on March 15th, 2021 and will continue until the position is filled.

Ann Tate <[annthomastate@gmail.com](mailto:annthomastate@gmail.com)>

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## YorkU HoneyBeeGenomics

Postdoctoral positions in genomics, pollen metabarcoding, and ecology at York University, Toronto, Canada.

The honey bee lab ([www.yorku.ca/zayedlab](http://www.yorku.ca/zayedlab)) at York University’s Dept. of Biology (Toronto, Canada) has several positions available starting Summer of 2021. Projects include:

- 1) Developing bio-markers for honey bee health: Our

group is leading a national initiative called BeeCSI (<https://beecsi.ca/>) which will systematically expose honey bees to a large number of relevant stressors to identify transcriptional biomarkers associated with exposure. We are looking for a postdoctoral fellow with experience in transcriptomics and interest in honey bee biology to participate in both wet-lab and bioinformatics components of this research.

2) Molecular palynology: To better understand the role of nutrition in bee health, our group is looking for a postdoctoral fellow with experience in DNA barcoding and meta-barcoding to identify the source and diversity of pollen collected by honey bee colonies situated near and far from a large number of crops in Canada. The postdoctoral fellow will work closely with collaborator and molecular palynology expert, Dr. Rodney Richardson (University of Maryland), in addition to collaborating with other researchers on the BeeCSI team (<https://beecsi.ca/>).

3) Landscape and bee health: We are assembling a rich

dataset of pests, pathogens, pesticides, pollen diversity and transcriptomic profiles in a very large number of honey bee colonies from across Canada. We are looking for a postdoctoral fellow with experience in spatial ecology to study how landscape interacts with multiple stressors to influence honey bee health in the field.

Qualified candidates are encouraged to submit a cover letter outlining their expertise, a CV, reprints of relevant papers, and contact information for 3 referees to [honeybee@yorku.ca](mailto:honeybee@yorku.ca) between now and April 20th 2021. We will evaluate the applications as they are received.

In addition to the honey bee lab, York University is home to the Center for Bee Ecology, Evolution and Conservation (BEEc, <https://bees.yorku.ca>). Successful candidate will have a chance to interact with the diverse faculty, fellows and students at BEEc, and participate in BEEc activities and training initiatives.

Duration: 2 years Salary: \$50,000 including benefits.

Ida Conflitti <[iconflitti@gmail.com](mailto:iconflitti@gmail.com)>

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## WorkshopsCourses

KITP SantaBarbara PolygenicAdaptation Jun13-Jul15	Feb23	110
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## KITP SantaBarbara PolygenicAdaptation Jun13-Jul15

Towards an Integrative View of Adaptation: Bridging Population and Quantitative Genetics

Coordinators: Alison Etheridge, Kavita Jain, Christian Schlötterer, and Naomi Wray

Location: KITP Santa Barbara, California

Dates: Jun 13, 2022 - Jul 15, 2022

APPLICATION DEADLINE: March, 1, 2021

<https://www.kitp.ucsb.edu/activities/adapt22> The study of adaptive evolution in molecular population genetics and quantitative genetics have remained rather isolated disciplines despite the shared research theme. While quantitative genetics describes adaptation of quantitative traits as a collective effect due to small shifts in the allele frequencies of a large number of underlying genetic loci (polygenic adaptation), molecular population genetics has focused on adaptation due to a small number of favorable loci in which the allele frequencies sweep to fixation. The connection between these two areas became possible when molecular markers were introduced. Since then Quantitative Trait Locus (QTL) mapping and, more recently, Genome-Wide Association Studies (GWAS) developed into powerful approaches to link phenotypes of interest with their genetic basis. Furthermore, stochastic models of evolution that borrow techniques from statistical physics provided a link between the bottom-up and top-down approaches in understanding adaptive dynamics. As a result, it is now becoming increasingly clear that both “sweeps” and “small shifts” are rather the endpoints of a scale than exclusive alternatives.

This program will bring together theoreticians and empiricists to develop the basis for a unified framework of adaptive genetic architectures. The new framework will integrate molecular population genetics and quantitative genetics, addressing three main questions:

1. What are the different adaptive scenarios that need to be distinguished and what are their defining characteristics?
2. What are the key factors that determine these scenarios?
3. How can we develop powerful statistical tests to detect polygenic adaptation from empirical data?

KITP programs provide a fantastic opportunity for sci-

entific exchange and interdisciplinary collaboration.

A typical day starts with 2 lectures and includes ample opportunity for discussion. In the afternoon we will have discussion groups and workshops on specific subtopics as well as bottom up activities of the participants. Long-term participants will be provided office space at KITP. The scientific activities will be accompanied by joint social events such as BBQ, wine tasting or beach volleyball. Social and scientific interactions are facilitated with many long-term participants staying at the Munger Physics Residence.

Because the program encourages scientists to stay as long as possible, KITP has several family friendly measures in place ( <https://www.kitp.ucsb.edu/visitors/-before-your-visit/family-fund>).

We are aiming to gather a stimulating group of participating scientists covering the full spectrum from theoreticians to experimentalists. Female scientists and representatives of minority groups are particularly encouraged to apply.

Christian Schlötterer Institut für Populationsgenetik Vetmeduni Vienna Veterinärplatz 1 1210 Wien Austria/Europe

phone: +43-1-25077-4300 fax: +43-1-25077-4390  
<http://www.vetmeduni.ac.at/en/-population-genetics/> Christian Schlötterer  
 <christian.schloetterer@vetmeduni.ac.at>

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## Online AdvancedProgrammingInR Mar8-12

Dear all,

we still we still have a few places available on our course “Advanced Programming in R”, which will be delivered remotely from the 8th to the 12th of March.

Course website: ( <https://www.physalia-courses.org/-courses-workshops/course47/> )

The emphasis of this course is on building skills for programming, that go beyond basic R usage.

Participants will learn:

- 1) good coding practices
- 2) sanitizing data, the tidyverse
- 3) advanced graphics in R (both base R graphics and ggplot2)

- 4) the R modelling interface
- 5) using R for manuscript writing
- 6) how to create own R packages

Full list of our courses and Workshops: ( <https://www.physalia-courses.org/courses-workshops> )

Should you have any questions, please feel free to contact us: [info@physalia-courses.org](mailto:info@physalia-courses.org)

Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR  
[info@physalia-courses.org](mailto:info@physalia-courses.org) mobile: +49 17645230846 Follow us on ( <https://twitter.com/Physacourses> )

“[info@physalia-courses.org](mailto:info@physalia-courses.org)” <[info@physalia-courses.org](mailto:info@physalia-courses.org)>

## 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 'LIVE COURSE' the instructor will be delivering lectures and coaching attendees through the accompanying computer practical's via video link, a good internet connection is essential.

TIME ZONE '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 [oliverhooker@prstatistics.com](mailto:oliverhooker@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 applications 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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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>

## Online cE3c Portugal RandEvol

Subject: Portugal-cE3c-Course: two cE3c advanced courses on R, deadline of applications April 2nd 2021

cE3c 'V Centre for Ecology, Evolution and Environmental Changes is organizing several Advanced Courses: see below the two courses with closer deadlines of applications'V April 2nd 2021

Additional informations of these and other courses at:

<https://ce3c.ciencias.ulisboa.pt/training/> \*\*\*\*\*

Course Introduction to R programming and biological data analysis

Taught by Ines Fragata and Vitor Sousa | May 5-7, 2021 @ Lisbon, Portugal

THIS COURSE WILL BE GIVEN ONLINE

Objectives Provide students with basic knowledge of R programming, allowing them to manipulate and visualize data with R.

Topics:

Introduction to R and R studioR Basic syntaxIntroduction to variable types and functionsManipulate vectors, matrices and data framesRead and load data into R Make graphics in R

Course INSTRUCTORS Ines Fragata (irfragata@gmail.com) (<http://ce3c.ciencias.ulisboa.pt/member/inesfragata>) Researcher at cE3c

and Vitor Sousa (vmsousa@fc.ul.pt) (<http://ce3c.ciencias.ulisboa.pt/member/vitorsousa>) Researcher at cE3c, Coordinator of the Evolutionary Genetics Group

Intended audience: This three days intensive course will be open to a maximum of 20 participants, being directed to PhD or MSc students in Biology, Evolution, Ecology or related areas, and postdocs and other professionals working in related topics.

Minimum formation: Bachelor's degree in biology or related areas. No previous knowledge of R is necessary.

The course is free for a maximum of 10 1st year PhD students in the Doctoral programme in Biology (FCUL), Biodiversity, Genetics and Evolution (BIODIV UL, UP) and Biology and Ecology of Global Changes (BEAG UL, UA). For information of fees for other participants see the programme details.

Deadline for applications: April 2nd 2021

Candidates should send a short CV and motivation letter to Ines Fragata (irfragata@gmail.com) and Vitor Sousa (vmsousa@fc.ul.pt).

For additional details about this course and others go to: <https://ce3c.ciencias.ulisboa.pt/training/> \*\*\*\*\*

Course Advanced R for Ecology and Evolutionary Biology

Taught by Ines Fragata and Vitor Sousa | May 10-14 2021 @ Lisbon, Portugal

THIS COURSE WILL BE GIVEN ONLINE

Objectives:

Provide students with statistical knowledge and tools to manipulate, analyze and visualize biological data with R. Introduction to modeling, simulations and Bayesian statistics.

Topics:

Refresher into RExploratory analysis for ecology and evolution (Principal Component Analysis)Linear regression and ANOVAHypothesis testing using bootstrap and permutationsIntroduction to analysis of population genetics in RModeling and simulation of dynamics systemsBayesian statistics and advanced inference algorithms (Markov chain Monte Carlo)Students case studies

Course INSTRUCTORS Ines Fragata (irfragata@gmail.com) (<http://ce3c.ciencias.ulisboa.pt/member/inesfragata>) Researcher at cE3c

and Vitor Sousa (vmsousa@fc.ul.pt) (<http://ce3c.ciencias.ulisboa.pt/member/vitorsousa>) Researcher at cE3c, Coordinator of the Evolutionary Genetics Group

Intended audience: This five days intensive course will be open to a maximum of 20 participants, being directed to PhD or MSc students in Biology, Evolution, Ecology or related areas, and postdocs and other professionals working in related topics.

Minimum formation: Knowledge of R programming syntax and Rstudio. Preference will be given to participants that attend the introductory course in R or that

have previous knowledge in R.

The course is free for a maximum of 10 1st year PhD students in the Doctoral programme in Biology (FCUL), Biodiversity, Genetics and Evolution (BIODIV UL, UP) and Biology and Ecology of Global Changes (BEAG UL, UA). For information of fees for other participants see the programme details.

Deadline for applications: April 2nd 2021 Candidates should send a short CV and motivation letter to Victor Sousa (vmsousa@fc.ul.pt) and Ines Fragata (irfragata@gmail.com).

For additional details about the course and others go to: <https://ce3c.ciencias.ulisboa.pt/training/> \*\*\*\*\*

Margarida Matos <mmmatos@fc.ul.pt>

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## Online GWAS May17-21

Dear all,

registrations are now open for the 2nd edition of the Physalia course “Introduction to genome-wide association studies (GWAS)” which will be delivered remotely in May (17th - 21st)

( <https://www.physalia-courses.org/courses-workshops/course49/> )

Instructors: 1) Dr. Filippo Biscarini (CNR, Italy); 2) Dr. Oscar González-Recio (INIA, Spain); 3) Dr. Christian Werner (University of Edinburgh, UK)

### OVERVIEW

This course will introduce students, researchers and professionals to the steps needed to build an analysis pipeline for Genome-Wide Association Studies (GWAS). The course will describe all the necessary steps involved in a typical GWAS study, which will then be used to build a reusable and reproducible bioinformatics pipeline.

### FORMAT

The course is structured in modules over five days. Each day will include introductory lectures with class discussions of key concepts. The remainder of each day will consist of practical hands-on sessions. These sessions will involve a combination of both mirroring exercises with the instructor to demonstrate a skill as well as applying these skills on your own to complete individual exercises. After and during each exercise, results will be interpreted and discussed in group.

### TARGETED AUDIENCE & ASSUMED BACKGROUND

The course is aimed at students, researchers and professionals interested in learning the different steps involved in a GWAS study using them to build a structured pipeline for semi-automated and reproducible GWAS analyses. It will include information useful for both beginners and more advanced users. We will start by introducing general concepts of GWAS and bioinformatics pipeline building, progressively describing all steps and putting there seamlessly together in a general workflow. Attendees should have a background in biology, specifically genetics; previous exposure to GWAS experiments would also be beneficial. There will be a mix of lectures and hands-on practical exercises using R, Linux command line and custom software. Some basic understanding of R programming and Unix will be advantageous. Attendees should also have some basic familiarity with genomic data such as those arising from NGS experiments.

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) mobile: +49 17645230846 Follow us on ( <https://twitter.com/Physacourses> )

“[info@physalia-courses.org](mailto:info@physalia-courses.org)” <[info@physalia-courses.org](mailto:info@physalia-courses.org)>

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## Online IntroductionToCommand-LineBioinformatics Feb23

Introduction to command line bioinformatics

Tuesday 23 Feb 2021

This free course will be delivered online, from the bioinformatics team at the NERC Environmental Omics Facility (<https://neof.org.uk/>). The course is only open to UK-based researchers.

Bioinformatics is an increasingly important skill for biological scientists. Many bioinformatic tools can only be run on Unix based operating systems. This course is

aimed at beginners and novices to the command line; it will give an overview of fundamental unix commands, directory navigation, and file manipulation.

For those without previous bioinformatics command line experience this course is a prerequisite for those interested in our other Bioinformatic courses (<https://neof.org.uk/training/>).

Register to attend here: <https://forms.gle/GTTY96HureT5oaLQ9> Only 20 places are available so please only register if you intend on attending.

The session will be on Tuesday 23rd February 2021, 10am-4pm, with a spillover session on Thursday 25th February should the course be sufficiently oversubscribed.

The deadline to register is Monday 15th February noon.

Any queries, please contact [neof@sheffield.ac.uk](mailto:neof@sheffield.ac.uk)

Register to NEOF mailing list to hear first about future NEOF free bioinformatics courses: <https://neof.org.uk/news/> Introduction to sequencing data and quality control 16 & 18 March

Bacterial 16S metabarcoding 27 & 29 April

Metabarcoding for diet analysis and environmental DNA 18 & 20 May

What others say about NEOF courses:

\$B!H(BI think everything is just right for an online workshop. Can't wait for the other workshops!\$B!I(B (22/1/21)

"I think this was a brilliantly organised and executed course. All the course organisers and moderators were extremely helpful and knowledgeable which made attending the course enjoyable and worthwhile." (22/1/21)

Helen Hipperson <[h.hippersion@sheffield.ac.uk](mailto:h.hippersion@sheffield.ac.uk)>

Course website: <https://www.physalia-courses.org/courses-workshops/course60/> Nextflow is a widely adopted workflow system for running high-throughput, data-intensive applications across cloud and on-premise infrastructure.

It has fast become one of the primary technology platforms for computational workloads in life sciences.

The framework allows scientists to write code in any scripting language, define software dependencies with containers, connect tasks with the event-driven dataflow programming DSL and then deploy anywhere: local machines, grid computing systems or public cloud infrastructure.

The workshop is intended for users to become quickly proficient in Nextflow technology, starting from basic through to advanced concepts. Intensive training is provided across 14 Nextflow topics with each topic designed to last between 45 to 60 min and includes talks, live demonstrations and practical sections which all participants can complete.

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)>

[info@physalia-courses.org](mailto:info@physalia-courses.org)

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## Online Introduction To Workflow Systems Apr12-14

Dear all,

registrations are now open for the 2nd edition of the online course "Nextflow: Reproducible Containerised Scientific Workflows across Clusters and Cloud"

Date and time: 12th-13th-14th of April. Classes from 3-6 pm CET

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## Online Palaeogenomics May17-21

Dear evoldir members,

Transmitting Science is running the LIVE ONLINE course 'Introduction to palaeogenomics - concepts, methods and applications of ancient human and non-human DNA data'.

Instructors: Dr. Marcela Sandoval Velsaco (University of Copenhagen, Denmark) Dr. Jazmín Ramos-Madrigrál (University of Copenhagen, Denmark)

Dates & Times: May 17th-21st, 2021 16:00-21:00

(GMT+2, Madrid time)

Preliminary programme:

1. Introduction to ancient DNA and palaeogenomics - History and development of the field. Contamination and degradation of DNA. Best practices and sampling strategies. Ethical implications of aDNA research 2. Laboratory methods - DNA extraction. Library preparation methods (ds, ss, BEST, BEMT, SC). Sequencing strategies. Best practices. 3. Data preprocessing, particularities of ancient DNA data and basic data quality statistics. 4. Standard and alternative mapping strategies. Overview of palaeogenomics analysis pipelines (e.g. paleomix and eager). Selection of reference genome. Reference bias and strategies to overcome it. 5. aDNA authentication. Damage, error rates and contamination analysis. 6. Analysis of low coverage data using Angsd (potential strategies using genotype likelihoods and pseudo-haploid data) 7. Broad ancestry estimation using NGS tools. Clustering strategies (PCA, Admixture). Phylogenomics (Treemix) 8. Introduction to F-statistics (D-statistics, F3) and Admixture graphs.

For more information and registration: <https://www.transmittingscience.com/courses/genetics-and-genomics/introduction-to-palaeogenomics-concepts-methods-and-applications-of-ancient-dna-data/> Contact: [courses@transmittingscience.com](mailto:courses@transmittingscience.com) <[haris.saslis@transmittingscience.com](mailto:haris.saslis@transmittingscience.com)>

All the best,

Haris Saslis, PhD Course Coordinator Transmitting Science [www.transmittingscience.com](http://www.transmittingscience.com) Haris Saslis <[haris.saslis@gmail.com](mailto:haris.saslis@gmail.com)>

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## Online RNASeqReferenceGenomeBased Mar1-4

The University of Connecticut's Computational Biology Core is offering a workshop on RNA-seq focused on identifying differentially expressed genes using an existing reference genome and annotation.

The workshop will cover data quality control, read mapping, quantification of expression, obtaining data from the Ensembl database, exploratory and statistical analysis of expression data and functional enrichment analysis.

The workshop will take place over 4 days for three hours

each day.

Dates: March 1 - 4 (4 days)

Time (US Eastern): M: 8:30am-12pm T-W-Th: 9.00am - 12.00pm

Location: Online

Cost: \$300 for UConn affiliates, \$405 external

Workshop schedule

Day 1: Introduction to Linux, High performance computing

Day 2: QC, mapping, generating count data

Day 3-4 : Exploratory analysis/QC, statistical analysis, functional enrichment.

Registration

To register, please follow this link: <https://forms.gle/pZbsmRF3nvhMvPj59> Workshop FAQ

Who should attend?

Anyone who wants to learn the fundamentals of RNA-seq. Prior course participants have included faculty, post docs, grad students, advanced undergraduates, staff, and industry researchers.

What are the prerequisites?

Prior bioinformatic experience is not required. We have dedicated the first day of workshop to the basics of Linux and high performance computing.

What do I need?

You will need your own laptop to use, have a recent version of R, RStudio installed, and some other applications. We will send you details of software and installation instructions with your registration acknowledgement email.

Can I bring my own data?

We will provide experimental datasets for use during the workshop, as this helps to keep the workshop moving. There will be time, however, to discuss your own datasets and how you might work with them outside of the workshop.

How much does it cost?

The registration fee is \$300/\$405 for UConn affiliated/non-UConn participants.

How do I pay?

The fee is due at the time of registration. UConn affiliates can use KFS accounts. The only other means of payment we currently accept is credit card. Due to some complications we cannot accept international wire transfers at this time.



Where is the workshop?

It will be held on Blackboard-Collaborate platform, and will run from 9:00am to 12:00pm on the dates indicated.

How do I apply?

All registration is “first-come, first-served.” There is no application process. Sign up as soon as possible to ensure your place in the workshop.

Questions?

If you have any questions, please don’t hesitate to contact us at [cbcsupport@uconn.edu](mailto:cbcsupport@uconn.edu)

[noah.reid@uconn.edu](mailto:noah.reid@uconn.edu)

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### Online scRNAseqWithRBioconductor Jun7-11

Dear all,

registrations are now open for the 3rd edition of the course “single-cell RNA-seq analysis with R/Bioconductor”, which will be delivered remotely in June (7th-11th)

Course website: ( <https://www.physalia-courses.org/courses-workshops/course18/> )

This course will introduce biologists and bioinformaticians to the field of single-cell RNA sequencing. We will cover a range of software and analysis workflows that extend over the spectrum from the best practices in the filtering scRNAseq data to the downstream analysis of cell clusters and temporal ordering. This course will help the attendees gain accurate insights in pre-processing, analysis and interpretation of scRNAseq data.

We will start by introducing general concepts about single-cell RNA-sequencing. From there, we will then continue to describe the main analysis steps to go from raw sequencing data to processed and usable data. Finally, we will focus more specifically on the different analyses strategies to use in order to extract information from genomic datasets such as Hi-C, ATAC-seq or ChIP-seq.

Throughout the workshop, bash tools and R/Bioconductor packages will be used to analyse datasets and learn new approaches.

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 StrategiesForInclusiveFieldwork Feb17

Safer Science: Strategies to protect at-risk researchers when conducting fieldwork

Join the conversation: [#SaferScience](https://twitter.com/SaferScience)

As a result of identity prejudice, certain individuals are more vulnerable to conflict and violence when they are performing scientific work in the field. To help create change and best practices, everyone within the scientific community will benefit from learning more about the risks some colleagues face performing fieldwork. Join this live webinar to learn more.

At this event, Amelia-Juliette Demery and Monique Pipkin will present their Nature Ecology and Evolution paper titled, “Safe fieldwork strategies for at-risk individuals, their supervisors and their institutions < <https://www.nature.com/articles/s41559-020-01328-5> >.” The paper presentation will be followed by a moderated discussion with inter-disciplinary experts in fieldwork and diversity and inclusion. Participants are encouraged to submit questions upon registration.

Register: <https://cals.cornell.edu/safer-science> Date and Time February 17, 2021 1:30 pm - 3:00 pm EST

Panelists Dr. Meredith Hastings < <https://vivo.brown.edu/display/mhasting> >, Associate Professor of Environment & Society, Brown University Women’s Network President, PI for AdvanceGeo Dr. Christopher J Schell < <http://faculty.washington.edu/cjschell/wordpress/> >, Assistant Professor of Urban Ecology, University of Washington Tacoma Author of Recreating Wakanda by promoting Black excellence in ecology and evolution Dr. Hendratta Ali < <https://fhsu.edu/geo/faculty-and-staff/Ali/index> >, Associate

Professor of Geosciences, Fort Hays State University

Author of Ten Steps to protect BIPOC scholars in the field Sara Souza, Field Safety Specialist, University of California

Moderators Amelia-Juliette Demery: PhD Candidate in Ecology and Evolutionary Biology at Cornell University. Amelia-Juliette is a 3rd year PhD candidate and Sloan Foundation Scholar. She is interested in the genomic mechanisms underlying avian phenotypes and

their evolutionary patterns across space and time.

Monique Pipkin: PhD Student in Ecology and Evolutionary Biology at Cornell University. Monique is a 2nd year PhD student and Sloan Foundation Fellow. Her research focuses on the ultimate and proximate mechanism behind social behavior and social signaling, and the use of art in science education and outreach.

Chelsea Dvorak Specht <cdspecht@cornell.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. 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  $\text{\LaTeX}$  do not try to embed  $\text{\LaTeX}$  or  $\text{\TeX}$  in your message (or other formats) since my program will strip these from the message.