
E v o l D i r

March 1, 2024

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

Foreword

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

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

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



Foreword	1
Conferences	2
GradStudentPositions	25
Jobs	50
Other	73
PostDocs	82
WorkshopsCourses	111
Instructions	125
Afterword	126

Conferences

Brazil FrugivoresSeedDispersal Aug4-8	2	Montreal MarineEvolution Jul26-30	13
Cambridge UK CancerEvolution May8-10	3	Montreal Networks Jul26-30	13
Campinas Brazil PlantFungiInvasions Jun26-29	4	Montreal ReproductiveTraitEvolution Jul26-30	14
Copenhagen Hologenomics Jun30-Jul2	4	Montreal SociallyTransferredMaterials Jul26-30	14
DurhamUK EvolMedicine Aug6-9 AbstDeadlineMar1	4	Montreal UrbanEvolEcotox Jul26-30	15
DurhamUK EvolMedicineSoc Aug6-9 AbstDead-		NewYorkCity TeachingEvolution Jun10-12	16
lineThisWeek	5	Olhao Portugal HostMicrobeSymbiosis Jun10-13	16
Durham UK EvolutionaryMedicine Aug6-9	6	Online ESEB STN InternalConflicts Mar21	17
Helsinki ArthropodSatelliteEED Jun24-25	6	OnlineSeminar ESEB STN Speciation Mar5	18
Helsinki EuroEvoDevo DevelopmentalSystemDrift		Online Vienna PopulationGenetics Tuesdays	18
Jun25-28	7	Paris ConservationGenomics Jun5-6	19
Helsinki EuroEvoDevo GeneRegulation Jun25-28 ...	7	Prague Microbiome Jul2-5	20
Helsinki FishEvoDevo Jun24-25	8	PuertoIguazo WoodpeckerEvolution Aug11-14	20
Heraklion Crete MachineLearningForEvolGenomics		SMBE Mexico AnimalPaleogenomics Jul7-11	21
May13-15	9	SMBE Mexico CallForAbstracts TravelAwardApplica-	
Lausanne Switzerland ConservationGenetics Aug28-30		tions	21
9		SMBE Mexico GreenComputingMethods Jul7-11 ..	22
London Speciation Apr11	10	UCampinas Brazil PlantFungalInvasions Jun26-29 Trav-	
LosAngeles Online VisualizingDataVIZBI Mar13-15	10	elGrant	22
Madison Wisconsin SymbiosisInAquaticSystems Jun2-7		URennes France Hermaphrodites Apr23-24	23
11		Vienna MathModelsEvolution Jul15-18	23
Montpellier MathCompEvolBiol Jun17-21	11	YosemiteNatlPark Symbiosis Apr19-21	24
Montreal AdaptiveEpigenetics Jul26-30	12		
Montreal EvolutionaryRescue Jul26-30	12		

Brazil FrugivoresSeedDispersal Aug4-8

This year, we are organizing a symposium focused on frugivores and seed dispersal, scheduled to take place from August 4th to 8th. This symposium holds special significance, not only for me but for many young scientists who, like myself, were profoundly influenced by a similar event in the year 2000. This year, our goal is to contribute to a transformative shift in the study of mutualisms, with a particular emphasis on seed dispersal. I am extending a heartfelt invitation to you and your colleagues to join us for this enriching experience.

The symposium promises not only engaging scientific discussions but also the opportunity to connect with

an international community of researchers hailing from various countries. The chosen venue for this event, Ilhã $\frac{1}{2}$ us in Northeastern Brazil, adds an extra layer of inspiration. Renowned for its stunning beaches, the rich cultural heritage of Brazil, and the breathtaking Atlantic forest hosting cocoa crops, Ilhã $\frac{1}{2}$ us provides a truly exceptional backdrop for our intellectual exchange.

Your presence would mean a great deal to us, and we sincerely hope you can make it. If you find this symposium aligning with your interests or believe it would be of interest to your colleagues, please consider sharing this invitation with them.

We look forward to the possibility of welcoming you in August in Brazil for what promises to be a memorable and intellectually stimulating event.

Here it is the link for the event: <https://fsd2024.com.br/>
Sincerely,

Paulo Guimarães $\frac{1}{2}$ es

Paulo R. Guimarães Jr Professor Titular - Chefe de Departamento Departamento de Ecologia - Universidade de São Paulo (USP) www.guimaraes.bio.br
 evoldir@evol.biology.mcmaster.ca

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Cambridge UK CancerEvolution May8-10

Cancer Evolution: from Genome to Ecology 2024 conference is taking place 8-10 May 2024 on the Wellcome Genome Campus, near Cambridge, UK

You will have the opportunity to engage with a community of global scientists working in evolutionary biology, cancer research, and clinical practice, and share novel ideas to shape thinking on the future of precision medicine in treating cancer.

This Wellcome Connecting Science conference is being held in collaboration with the International Society for Evolution, Ecology and Cancer (ISEEC).

Sessions will focus on:

- Modelling the evolution of cancer
- Aging and cancer
- Phenotypic plasticity
- Spatial biology and ecology
- Beyond the genome
- Data visualisation and cross-disciplinary learning

Receive expert feedback by sharing your research as a short talk, poster pitch talk or poster presentations.

Submit your abstract by 12 March 2024. Registration deadline (In-person): 9 April 2024; Registration deadline (Virtual): 30 April 2024

- Click this link to find out more about the conference on our website: (<https://coursesandconferences.wellcomeconnectingscience.org/event/cancer-evolution-from-genome-to-ecology-20240508/>) Committee

Athena Aktipis - Arizona State University, USA

Rebecca Fitzgerald - University of Cambridge, UK

Moritz Gerstung- Deutsches Krebsforschungszentrum (DKFZ), Germany

Carlo Maley - Arizona State University, USA

Conference speakers

James DeGregori (Keynote) - University of Colorado, USA

Níria López-Bigas (Keynote) - Institute for Research in Biomedicine Barcelona, Spain

David Fernandez Antoran - Fundació Instituto de Investigació Sanitaria Aragó, Spain

Amy Boddy - University of California Santa Barbara, USA

Trevor Graham - Institute of Cancer Research, UK

Michael Lässig - University of Cologne, Germany

Laura Machesky - University of Cambridge, UK

Christoph Plass - German Cancer Research Center (DKFZ), Germany

Raheleh Rahbari - Wellcome Sanger Institute, UK

Amanda Rossiter - University of Birmingham, UK

Maria Secrier - University College London, UK

Arne Traulsen - Max-Planck-Institute for Evolutionary Biology, Germany

José Tubío - Center for Research in Molecular Medicine and Chronic Diseases, Spain

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 Wellcome Sanger Institute, Wellcome Genome Campus, Hinxton, CB10 1SA.

Jane Murphy <jane.murphy@wellcomeconnectingscience.org>

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Campinas Brazil PlantFungiInvasions Jun26-29

Registration open! 45th New Phytologist Symposium: Ecological and evolutionary consequences of plant-fungal invasions.

The deadline to submit an oral abstract or a travel grant application is 1 March. The deadline to submit a poster abstract is 1 April.

Symposium organisers: Laszlo Nagy, University of Campinas Erika Buscardo, University of Brasilia Miranda Hart, University of British Columbia Okanagan Jason Hoeksema, University of Mississippi

A two-day pre-symposium workshop on 'Metabarcoding and Metagenomics, powerful tools to explore the ecological dimension of biological invasions' will also be held from Monday 24 June 2024. See the programme for full details of sessions and confirmed speakers.

All details and registration here: <https://npf-events.evecloud.com/45NPS/en/page/home> Kind regards, Mike

Dr Mike Whitfield (he / him), Development Coordinator <https://www.newphytologist.org/> | Registered charity number 1154867 Twitter & Instagram:—@newphyt—| Facebook:—fb.com/NewPhytologist

Dedicated to the promotion of plant science

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

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Copenhagen Hologenomics Jun30-Jul2

We are delighted to advertise that we have now opened the online registration for both attendance and submission of talk and/or poster abstracts at our upcoming conference, on Hologenomics, to be held in Copenhagen (Denmark) from Sunday June 30th until Tuesday 2nd July, 2024.

The conference is hosted in Central Copenhagen, by the Center for Evolutionary Hologenomics at the University of Copenhagen, and serves as a follow up to our prior Hologenomics meeting held in Bilbao in September 2022 at which ca 300 people attended in person and online.

Overall the aim of the conference is to present state of the art applications of hologenomics (ie combined analyses of host genomic and microbiomic datasets) across a range of basic and applied systems, with one of the principal attractions being that the talks can act as a source of great inspiration as to how taking such approaches can benefit your own work.

As before we will be able to host both attendees in person, but also via the internet.

Thanks to generous sponsorship principally from the NovoNordisk Foundation, the conference will be free to attend (including lunches, coffee and snacks etc), although we are physically limited to maximum 400 attendees. Therefore there is a mandatory registration for attendees to enable us to appropriately cater for the event.

More details, including the range of topics covered, the confirmed invited speakers and the submission portal for registration (including abstracts) can be found at the conference website.

<https://www.appliedhologenomicsconference.eu/> We look forward to hosting some of you in Copenhagen this summer,

On behalf of the organisers,

Tom Gilbert

Director DNRF Center for Evolutionary Hologenomics
The University of Copenhagen

Tom Gilbert <tgilbert@sund.ku.dk>

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DurhamUK EvolMedicine Aug6-9 AbstDeadlineMar1

March 1 is the deadline for abstract submissions for talks, posters, and symposia at the 9th Annual Meeting of the International Society for Evolution, Medicine, and Public Health, August 6-9th at the University of Durham, UK.

All who are interested in how evolutionary biology can

improve the understanding, prevention, and treatment of disease are invited. Student presentations are welcome, and students who submit abstracts will automatically be considered for one of the limited travel stipends (\$500 or \$1000, depending on location)

A pre-meeting on Evolutionary Psychiatry will also be of special interest.

Full information is available at <https://isemph.org/ISEMPH-2024> The program includes keynote talks from Jane Buikstra (Arizona State University) speaking about One Palaeopathology (One Health in the past), Ruth Feldman (Reichman University) on developmental social neuroscience, Daniel Nettle (Newcastle University and CNRS, Paris) on how an evolutionary perspective can help us understand overweight and obesity, and Jamaji Nwanaji-Enwerem (Emory University) on environmental exposures over the life course. Plenary talks are also scheduled from the winners of the Omenn Prize and the Williams Prize (TBA).

Additional talks, posters and discussions will bring us up to date on the latest developments and inspire conversations at breaks, breakfast, lunches, and dinners that are included in the registration fees.

The venue is the UNESCO World Heritage Site of Durham City with its magnificent mediaeval Cathedral and quaint market town centre. The Banquet will be at Durham Castle. Newcastle airport is close by. Group excursions to local sites at subsidized rates offer additional fun and time to talk. Childcare for all ages up to 16 is available at subsidized rates.

For questions about abstracts and the program, contact isemph2024@gmail.com For questions about local arrangements, contact isemph2024hosts@durham.ac.uk For other questions, contact Manager@isemph.org

Full information at <https://isemph.org/ISEMPH-2024>
Randolph Nesse <nesse@umich.edu>

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UK. Abstract submission information is at <https://isemph.org/abstracts2024> All who are interested in how evolutionary biology can improve the understanding, prevention, and treatment of disease are invited. Student presentations are welcome, and students who submit abstracts will automatically be considered for one of the limited travel stipends (\$500 or \$1000, depending on location)

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Full information at <https://isemph.org/ISEMPH-2024>
Randolph Nesse <nesse@umich.edu>

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DurhamUK EvolMedicineSoc Aug6-9 AbstDeadlineThisWeek

March 1 is the deadline for abstract submissions for talks, posters, and symposia at the 9th Annual Meeting of the International Society for Evolution, Medicine, and Public Health, August 6-9th at the University of Durham,

Durham UK Evolutionary Medicine Aug6-9

Registration and abstract submission are now open for the 9th Annual Meeting of the *International Society for Evolution, Medicine and Public Health* meeting August 6-9th at the University of Durham, UK. All who are interested in how evolutionary biology can improve the understanding, prevention and treatment of disease are welcome. Full information at <https://isemph.org/-ISEMPH-2024> ISEMPH members get substantial discounts on meeting fees. A special 20% discount on membership dues is available until Valentine's Day if you use the code "ISEMPH2024" at check out. After joining, register for the meeting to get early bird rates; fees are refundable until two weeks before the meeting.

The program includes keynote talks from Jane Buikstra (Arizona State University) speaking about One Palaeopathology (One Health in the past), Ruth Feldman (Reichman University) on developmental social neuroscience, Daniel Nettle (Newcastle University and CNRS, Paris) on how an evolutionary perspective can help us understand overweight and obesity, and Jamaji Nwanaji-Enwerem (Emory University) on environmental exposures over the life course. Plenary talks are also scheduled from the winners of the Omenn Prize and the Williams Prize (TBA).

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See the meeting website for full information. <https://isemph.org/ISEMPH-2024> For ques-

tions about abstracts and the program, contact isemph2024@gmail.com For questions about local arrangements, contact isemph2024hosts@durham.ac.uk For other questions, contact Manager@isemph.org

We hope to see you in Durham!

Randolph Nesse <nesse@umich.edu>

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Helsinki ArthropodSatelliteEED Jun24-25

Dear Arthropod EvoDevo biologists,

We are happy to announce that we are organizing an "Arthropod" Satellite Meeting—within the 2024 Euro Evo Devo (EED)—Conference in Helsinki.

The Arthropod Meeting will cover a wide range of themes on the development and evolution of arthropods, with both talks and poster sessions. The attendance fee for the Arthropod Meeting is euro 50, which will be collected alongside the registration for the main meeting. This fee covers all lunch and coffee breaks.

The Arthropod Meeting will start the morning of Monday June 24th—and will end in the afternoon of Tuesday June 25th, before the start of the EED main meeting.

— Please note that registration for the main meeting is mandatory to participate in a satellite meeting.—So, to attend our Arthropod meeting, you need to:

- (1)—Register for the main meeting. The registration form has an option to register for the satellite meeting. Please select the "Arthropod Satellite Meeting". <https://www.helsinki.fi/en/conferences/euroevodevo-2024/registration-and-abstract-submission>
- (2)—Submit an abstract for the Arthropod satellite meeting here: <https://forms.gle/E8WefQHxHq5GW5y9> —

Please forward this mail to others who might be interested in joining the meeting. Participants from other (related) fields are welcome. If you have any questions about the meeting, please contact any of the meeting organizers:

—
Ezzat El-Sherif (ezzat.elsherif@utrgrv.edu),

Maurijn van der Zee
(m.van.der.zee@biology.leidenuniv.nl),

Rodrigo Nunes da Fonseca (rodrigo.nunes.da.fonseca@gmail.com),

Ariel Chipman (ariel.chipman@mail.huji.ac.il)

—
Dr. M. van der Zee Associate Professor Evolutionary Developmental Biology <http://www.universiteitleiden.nl/en/staffmembers/maurijn-van-der-zee> Institute of Biology Leiden University Sylviusweg 72 2333 BE LEIDEN Netherlands tel. +31 71 527 4885 fax. +31 71 527 4900 Harnessing Biodiversity for Health <http://www.universiteitleiden.nl/en/science/biology> check out my online course on evolution: <https://www.coursera.org/learn/evolution-today>

Maurijn van der Zee <maurijn2@yahoo.com>

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Helsinki EuroEvoDevo DevelopmentalSystemDrift Jun25-28

Dear all,

We are happy to invite you to join the symposium S09 “Highlighting Developmental divergence and Developmental System Drift” at the EuroEvoDevo meeting in Helsinki (June, 25-28).

This symposium will focus on studying developmental conservation and divergence at different levels of biological systems as a new approach to achieving a more integrated understanding of evolution, as illustrated by the four invited speakers:

/-Naoki Irie (University of Tokyo, School of Science, Department of Biological Sciences, Japan)//*/- How did early animal embryos diversify despite the conserved bottleneck phase?/* /-Angela Hay (Mack Planck Institute, Germany*) - */*/Innovations driving explosive seed dispersal within and between species/* /-Patrick Lemaire (CRBM, France)//*/- Computational analysis of embryonic variability in ascidians/* /-Bhavin Khatri (Imperial College London, UK)//*/- Biophysics and population size constrain speciation in an evolutionary model of developmental system drift /*/*/*/*

We encourage submissions which use multidisciplinary approaches to quantify, characterize, and explain developmental divergence and developmental system drift at multiple organizational levels, from the micro-

the macroevolutionary scale, in a variety of organisms. We also strongly encourage submissions which report theoretical studies and/or bridge DSD with other fields of evolutionary biology (quantitative genetics, genomics etc).

Abstract submission deadline is coming soon, on the 15th of February 2024. <https://www.helsinki.fi/en/conferences/euroevodevo-2024>

We warmly thank the Compagny of Biologists for supporting the speakers.<https://www.biologists.com/> .
*/*See you in Helsinki!

Sophie Pantalacci (ENS Lyon, France) and Renske Vroomans (Cambridge University, UK)

*Sophie Pantalacci, PhD * Comparative and Integrative Genomics of Organ Development Lab Website < <http://www.ens-lyon.fr/LBMC/equipes/comparative-and-integrative-genomics-of-organ-development> >

LBMC / Ecole Normale Supérieure de Lyon 46 Allée d’Italie 69364 LYON cedex 07 FRANCE Office: + 33 4 72 72 81 70 Lab: + 33 4 72 72 86 20

Sophie Pantalacci <sophie.pantalacci@ens-lyon.fr>

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Helsinki EuroEvoDevo GeneRegulation Jun25-28

Hi all,

we are happy to announce that we will host a symposium on “Gene regulatory networks in development and evolution - Do we need a network-centric view on complex biological processes?” at the EuroEvoDevo 2024 Meeting in Helsinki (25.-28. June 2024). The topic will be introduced by four excellent invited speakers who will present their opinion on the topic from very different angles:

Kerstin Kaufmann (HU Berlin, Germany) Faud Magny (Le Moulon, Université Paris-Saclay, France) Arnau Sebé-Pedrós (CRG Barcelona, Spain) Markéta Kaucká (Max Planck Institute for Evolutionary Biology, Germany)

Our invited speakers are supported by a meeting grant of the Company of Biologists (<https://www.biologists.com/>).

If you want to join us discussing if and how gene regulatory networks may contribute to novel mechanistic insights into the evolution of developmental processes, please consider submitting your contribution to our symposium (S04) of the main meeting. The registration and abstract submission are open now. Here is the direct link to the registration/abstract submission website: <https://www.helsinki.fi/en/conferences/euroevodevo-2024/registration-and-abstract-submission> General information about the meeting is here: <https://www.helsinki.fi/en/conferences/euroevodevo-2024>

Please be aware of the following deadlines: 15.02.2024 Abstract Submission 29.02.2024 Early Registration

We are looking forward to meeting many of you in Helsinki!

Best wishes, Natascha and Nico

Nico Posnien (he/him) #gernperDu #CallMeByMy-FirstName

Georg-August-University Göttingen Johann-Friedrich-Blumenbach Institute for Zoology and Anthropology Department of Developmental Biology Ernst-Caspari-Haus (GZMB) Justus-von-Liebig-Weg 11 37077 Göttingen Germany

Phone: +49 (0) 55139 28662 <tel:+495513928662> E-mail: nposnie@gwdg.de Website: <http://www.posnien-lab.net> Twitter: @PosnienLab

“Posnien, Nico” <nposnie@gwdg.de>

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Helsinki FishEvoDevo Jun24-25

Dear Evo-Devo Community,

In advance of EuroEvoDevo 2024 in Helsinki (June 25-28), we are holding the Satellite Symposium “The Evo-Devo of Fish Biodiversity: Past - Present - Future” on June 24-25, 2024.

Fishes make up about 50% of all living vertebrates and most vertebrate developmental processes and mechanisms evolved within fishes. The evolutionary-developmental investigation of fishes illuminates not only their exceptional biodiversity but also our own human origins from fish ancestors. Evo-Devo-ting laboratories around the globe are using a large variety of piscine model species in their research - from jawless to cartilaginous to ray-finned and teleost fishes and to

lobe-finned fishes including fishapods.

In this 2-day Satellite Symposium, we will bring together the international Fish Evo-Devo community to discuss the advances and future of our field. Our program highlights the diversity of our community in terms of investigator backgrounds, career stages, research approaches, and fish model systems.

The program covers multiple topical sessions, an award session for postdocs and graduate students, flash talks associated with posters, and time for networking and discussion.

Keynote Speakers: Sam Giles (University of Birmingham, UK) and Daniel Pauly (University of British Columbia, CA)

This satellite meeting is part of the EuroEvoDevo 2024 conference (June 25-28) and registration to the main conference is required to attend this symposium.

For more info, see our website: <https://sites.google.com/view/fishevodevo2024/> The DEADLINE for abstract submission and early registration to the symposium is February 29, 2024.

1. Please register for the main EuroEvoDevo 2024 Conference first by February 29, and select the Fish Satellite Symposium. <https://www.helsinki.fi/en/conferences/euroevodevo-2024> 2. Then register and submit your abstract to our symposium here: <https://sites.google.com/view/fishevodevo2024/-registration-abstract-submission> Note that our symposium is capped at 100 participants, so get your registrations in soon!

For questions and inquiries, please contact us at fishevodevo2024@gmail.com.

Best fishes and see you in Fin-Land in Summer!

Ingo Braasch (Michigan State University, US), Emilia Santos (University of Cambridge, UK), Hugo Gante (KU Leuven, BE), and Vincent Laudet (Okinawa Institute of Technology, JP) - Co-Organizers

braasch@msu.edu

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Heraklion Crete
MachineLearningForEvolGenomics
May13-15

Dear all,

The first LEGEND conference on Machine Learning for Evolutionary Genomics will take place on May 13th-15th in Heraklion, Crete.

Our keynotes will be Sara Mathieson, Hilary Morlon, Pier Palamara and Tal Pupko

Submit your abstract before February 21st, register before April 15th.

More information on our website: <https://legend2024.sciencesconf.org/> Best regards,

Bastien Boussau

LBBE, UMR CNRS 5558

Lyon, France

<https://lbbe.univ-lyon1.fr/fr/annuaires-des-membres/boussau-bastien> Bastien Boussau
 <bastien.boussau@univ-lyon1.fr>

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Lausanne Switzerland
ConservationGenetics Aug28-30

Dear all,

Following our previous posting on EvolDir on November 26, 2023, we are pleased to announce the opening of the registration and abstract submission forms for the 6th European Conservation Genetics Meeting, where we will explore the crucial question: “How can research support pragmatic conservation policies?”

Please check the conference’s website at <https://eu.eventscloud.com/website/13263/> We cordially invite participants to apply for a 15-minute oral presentation + 3 minutes for questions (5-6 slots per each of the 5 sessions) or for a poster presentation. Presenters are

kindly requested to conclude their presentations with a slide/box on the practical implications of their work, potentially also related to the Convention on Biological Diversity (CBD).

Please note that the abstract submission (<https://event.fourwaves.com/consngen/pages>) should be done in addition to the registration (<https://eu.eventscloud.com/ereg/index.php?eventid=-200272391&>).

The provisional agenda is available at <https://eu.eventscloud.com/website/13263/agenda/>. It will be updated regularly (poster sessions and the social dinner will be incorporated, stay tuned).

Conference Details: Date: August 28-30, 2024 Venue: Palais de Rumine, Lausanne, Switzerland (Capacity: 270 people in person)

We have now secured the following keynote speakers for the five thematic sessions as follows: 1) Biodiversity assessment through the study of environmental DNA; keynote speaker: Prof. Laura Epp, Limnological Institute, Universität Konstanz, Konstanz, Germany.

2) Consequences of introgression on adaptive potential and conservation policies; keynote speaker: Prof. Richard Ennos, University of Edinburgh / Royal Botanic Garden Edinburgh, Edinburgh, Scotland.

3) Inference of population dynamics to identify conservation measures; keynote speaker: Dr Jeanette Hall, NatureScot, Inverness, Scotland.

4) Harnessing genetic diversity and evolutionary principles for population resilience and ecological restoration; keynote speaker: Dr Myriam Heuertz, INRAE, Research Unit BIOGECO, Bordeaux, France.

5) Monitoring genetic diversity and effective population size; keynote speaker: Dr Alicia Mastretta Yanes, Mexican National Commission for the Knowledge and Use of Biodiversity (CONABIO), Mexico City, Mexico.

6) Stakeholders’ session: “How to federate research assessing genetic diversity, from populations to ecosystems, among different scientific institutions in Switzerland and beyond and establish connections with other stakeholders (policy makers, NGOs, etc.)”. This session will take place in the form of a workshop on current and future perspectives in genetic diversity assessment in Switzerland (collaborative projects, communication portal, elaborating on a national association/institute, etc). Outcomes from the workshop will be communicated in 2025 at a broader stakeholders’ event (more information to come). Attending and participating to the workshop in the 6th session is included in the overall fee of the conference but people interested in participating only

to the stakeholders' session can register for free for this session in the registration form.

Important dates: - Opening of registration: February 10, 2024 - Deadline abstract submission: April 30, 2024 - Decision on accepted contributions: June 1st, 2024 - Closing of registration: August 21, 2024

Registration fees: - Early fee before June 30, 2024: * On-site and online regular participant: 200 CHF * On-site and online student participant: 150 CHF - Early fee before June 30, 2024: * On-site and online regular participant: 300 CHF * On-site and online student participant: 200 CHF - Social Dinner organized on the evening of August 29, 2024: 85 CHF (more information will follow on the website but a dedicated registration is already open online)

Cancellation: - Until June 30, 2024: 100% refund

Format: We're considering a hybrid format, encouraging international colleagues to join virtually while welcoming European attendees in person.

We look forward seeing you in Lausanne!

Best regards,

The organizing committee Nadir Alvarez (Naturéum Lausanne), Isabel Blasco-Costa (Geneva Natural History Museum), Mathias Currat (University of Geneva), Luca Fumagalli (University of Lausanne) and Yamama Naciri (Conservatory and Botanical garden Geneva), with the support of Felix Gugerli (WSL), Rolf Holderegger (WSL), Deborah Leigh (WSL), and Gernot Segelbacher (University of Freiburg, Germany)

Nadir Alvarez <nadir.alvarez@unil.ch>

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London Speciation Apr11

Final reminder:*Perspectives on Speciation*

A one-day interdisciplinary symposium examining how the process of speciation is viewed from a diversity of disciplines.

Linnean Society of London, 11 April 2024

Supported by the Integration of Speciation Research network of ESEB, by Oxford University Press and by the Company of Biologists

Accompanied by a Special Issue of the Evolu-

tionary Journal of the Linnean Society: <https://academic.oup.com/evolinnean/pages/perspectives-on-speciation> Attendance is possible in person or online - registration is required. There are just a few in-person places still available but online attendance is unlimited.

Details, including speakers, and registration at: <https://www.eventbrite.com/e/perspectives-on-speciation-hybrid-meeting-tickets-728342330517?aff=oddtcreator> Roger Butlin

Roger Butlin

Professor of Evolutionary Biology Ecology and Evolutionary Biology School of Biosciences The University of Sheffield

Professor Emeritus Marine Sciences University of Gothenburg

r.k.butlin@shef.ac.uk

<https://littorina.sites.sheffield.ac.uk/> Roger Butlin
<r.k.butlin@sheffield.ac.uk>

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LosAngeles Online VisualizingDataVIZBI Mar13-15

Early-bird rates are still available for ONLINE and in person participation at Visualizing Biological Data (<https://vizbi.org/2024>) and the Datavis Masterclass (<https://vizbi.org/2024/Masterclass>).

Register at <https://vizbi.org/2024/Registration> - Discounts are also available for groups, ISCB and Data Visualisation Society Members, and USC students and Faculty.

VIZBI has run annually since 2010. Meetings are interdisciplinary, and feature 3 keynotes and 6 plenary sessions reviewing tools and challenges in visualising data & communicating insight about DNA, RNA, Protein, Cells, Tissues & Organisms and Population and Ecosystems.

This year's Ecosystem chair by Holly Bik (UAthens), features Steve Haddock (MBARI), Alison Young (iNaturalist & Calacademy), and Rachel S. Meyer (CaleDNA, UCSC).

VIZBI 2024's Keynotes: Alex McDowell: <https://vizbi.org/2024/People#Alex.McDowell> Jessica Hull-

man: <https://vizbi.org/2024/People#Jessica.Hullman>
 Anders Ynnerman: <https://vizbi.org/2024/People#Anders.Ynnerman> For the full program see <https://vizbi.org/2024/Program> Please share this email amongst your colleagues, and we hope you can join us on-site or online in March!

Jim Procter, Sean O'Donoghue, Helen Berman and Bara Kozlikova.

The University of Dundee is a registered Scottish Charity, No: SC015096

“James Procter (Staff)” <J.Procter@dundee.ac.uk>

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Madison Wisconsin SymbiosisInAquaticSystems Jun2-7

Colleagues,

We are pleased to solicit abstracts for a special session on Symbiosis in Aquatic Systems to be held at the June conference of the Association for the Sciences of Limnology and Oceanography in Madison, Wisconsin, USA. We hope to attract a diverse set of presenters who share the common interest of understanding symbiosis from the level of the cell to the ecosystem, and encourage submissions addressing the ecology, evolution, physiology, or genetics of symbiosis. Researchers working with any aquatic model organism are welcome to participate. We have been told by the ASLO organizing committee that they will try to accommodate all presentation choices as much as possible, but that the exact date, time, and length of the session, and type of presentation (oral or poster) will be finalized after the 28 February 2024 abstract submission deadline (05:59 Greenwich Mean Time). Therefore, although the conference runs from June 2nd through June 7th, we do not know at this time which specific date our special session will be held.

If you are interested, further information about the conference can be found at <https://www.aslo.org/madison-2024/>. When submitting your abstract, select SS26 Symbiosis in Aquatic Systems as your preferred session (<https://www.aslo.org/madison-2024/session-list/>).

We are also hosting a separate workshop specifically on symbiosis between Daphnia and microbes. If you are interested in participating in the Daphnia-microbe workshop, please contact us. Limited travel support

for participants in the Daphnia-microbe workshop is available.

Please let us know if you have any questions about the symposium. We look forward to seeing you in Madison!

Carla Cicerone, University of Illinois Urbana-Champaign (cecacere@illinois.edu)

Jeff Dudycha, University of South Carolina (dudycha@biol.sc.edu)

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

“Dudycha, Jeff” <DUDYCHA@biol.sc.edu>

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Montpellier MathCompEvolBiol Jun17-21

Mathematical and Computational Evolutionary Biology (MCEB) June 17-21, 2024 Hameau de l'Etoile, near Montpellier, France

<https://mceb2024.sciencesconf.org/> Dates and deadlines:

February 1: Opening of abstract submission on the conference web site
 March 8: End of abstract submission
 March 15: Notification of decisions to applicants, opening of registrations
 April 26: End of registrations and payment (~650 euro, including accommodation)
 June 17 (evening) - 21 (early afternoon): conference

This year's meeting will put the emphasis on machine learning, with a special focus on simulation-based inference techniques. These approaches are getting traction in population genetics, phylogenetics, phylodynamics and areas in evolutionary biology whereby the complexity of the probabilistic models at play forbid the application of classical, likelihood-driven, estimation tools. The conference will provide a good opportunity to provide an overview of the techniques themselves with a focus on their applications to shed light on interesting biological processes.

Beyond this year's theme, general concepts, models, methods and algorithms will be presented and discussed, just as in the previous editions of MCEB. As usual, the meeting will bring together researchers originating from

various disciplines: mathematics, statistics, computer science, phylogenetics, population genetics, epidemiology, ecological modeling... Keynote speakers (see below) will introduce a field of research and discuss their own work in this field. Afternoon will be for short presentations and posters, with plenty of time for discussions. We will stop early every day, thus leaving time for other activities, such as hiking, rock climbing or river kayaking.

Keynote speakers:

- Carolin Colijn <https://www.sfu.ca/math/people/faculty/ccolijn/> - Claire Guinat <https://envt.fr/chercheur/claire-guinat/> - Jean-Michel Marin <https://imag.umontpellier.fr/~marin/> - Tal Pupko <https://www.tau.ac.il/~talp/> - Claudia Solís-Lemus <https://solislemuslab.github.io/> - Yun S. Song <https://people.eecs.berkeley.edu/~yss/> For more information and abstract submission, visit the website at: <https://mceb2024.sciencesconf.org/> We are looking forward to seeing you at the Hameau in June!

Best regards,

The MCEB organizing team –

Stephane Guindon <stephane.guindon@lirmm.fr>

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Montreal Adaptive Epigenetics Jul26-30

Dear colleagues,

We are organizing a symposium “Adaptive Epigenetics” at the 3rd Joint Congress on Evolutionary Biology, which is taking place July 26-30 in Montreal, Canada. The goal of this symposium is to feature talks focused on the various ways that epigenetic mechanisms could contribute to evolutionary processes, especially to adaptation. We hope to assemble scientists from different fields working on theoretical and empirical questions involving adaptive epigenetics. The abstract is provided at the end of the message.

Registration is now open, and abstracts can be submitted to be considered for this symposium. Please see the 2024 Conference info (<https://www.evolutionmeetings.org>) for meeting info. Talks are accepted on a first-come-first-serve basis, and those that are not selected for a symposium will nevertheless

be placed in one of the general sessions. Please don't hesitate to contact us if you have any questions about the symposium.

Hollie Marshall <hjm32@leicester.ac.uk> James Ord <james.ord@helsinki.fi> Clare Vennay <clarevenney@gmail.com> Clarissa de Carvalho <clarissa.carvalho@unifesp.br>

Symposium abstract:

The field of evolution is on the edge of a paradigm shift with the incorporation of epigenetic mechanisms changing how we view evolutionary processes. Epigenetics refers to potentially heritable chemical modifications that occur on the DNA of an organism. These chemical modifications can affect how genes function and can be induced by the environment. This paradigm is highlighted by the Unified Evolution Theory (2021), a modification of the Extended Evolutionary Synthesis which includes heritable environmentally induced epigenetics. This newly modified theory and specifically the extent to which epigenetics can play a role in species adaptation remains highly debated in some sub-fields but not others. A symposium directly addressing this topic will allow researchers from all areas to learn about the latest advances and evidence (or lack thereof) within evolutionary epigenetics, facilitating debate and knowledge sharing.

Clarissa F. de Carvalho Postdoctoral fellow Federal University of São Paulo (UNIFESP) <clarissa.carvalho@unifesp.br>

Clarissa Ferreira <clarissa.ferreira1@gmail.com>

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Montreal Evolutionary Rescue Jul26-30

Dear colleagues,

we are organizing a symposium 'Evolutionary rescue: theory, data, and pressing applications' at the 3rd Joint Congress on Evolutionary Biology, which is taking place July 26-30 in Montreal, Canada (<https://www.evolutionmeetings.org/>). Registration for the conference has just opened.

The goal of the symposium is to bring together theoreticians and empiricists working on fundamental and applied questions on evolutionary rescue. A slightly

more detailed symposium description is given below.

If you do research on evolutionary rescue, we would be very happy if you submitted an abstract to our symposium! Talks that are not selected for a symposium will (in contrast to ESEB congresses) nevertheless be accepted for the conference and be placed in one of the general sessions.

Please don't hesitate to contact us if you have any questions.

Matthew Osmond (mm.osmond@utoronto.ca) Hildegard Uecker (uecker@evolbio.mpg.de)

Symposium abstract:

Rapid evolution can rescue populations from extinction. In conservation this is desired, in agriculture (pesticide resistance) and medicine (drug resistance) it is often not. To better understand and manage evolution's effect on persistence there has now been nearly 30 years of research under the banner of "evolutionary rescue", ranging from mathematical models to experimental tests to natural observations. The increasing threats of climate change and drug resistance are only accelerating these efforts. In an attempt to unite and propel the growing field of evolutionary rescue, this symposium aims to bring together researchers across basic science, conservation, agriculture, and medicine.

Matthew Osmond <mm.osmond@utoronto.ca>

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

Ellika Faust [ellika.faust\[at\]eawag.ch](mailto:ellika.faust@eawag.ch)

Pierre De Wit [pierre.de.wit\[at\]bioenv.gu.se](mailto:pierre.de.wit@bioenv.gu.se)

Summary:

Around 500 million years ago life had not yet colonised land and was exclusively found in the oceans. Despite the rich diversity of life found in our oceans, much has yet to be described and put into an evolutionary context. Practical hurdles of working in the marine environment, as well as the complexity of marine systems, have historically impeded our ability to study them. However, with recent theoretical and technological advancements, these hurdles are diminishing, now allowing for in-detail studies of biological processes such as speciation, local adaptation, connectivity, and genotype-phenotype associations in diverse marine systems. This symposium will broadly feature studies that advance our understanding of these phenomena and their underlying mechanisms. It aims to highlight similarities and interconnections of study systems across different coastlines and oceans, thereby building a base for future collaborations across networks and societies in a world undergoing dramatic change.

"Faust, Ellika" <Ellika.Faust@eawag.ch>

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Montreal MarineEvolution Jul26-30

Dear friends and colleagues,

As part of the 3rd Joint Congress on Evolutionary Biology 2024 in Montreal, Canada, 26-30 July (<https://www.evolutionmeetings.org/>), we are organising a symposium on "Advances in marine evolutionary biology" (<https://www.evolutionmeetings.org/-symposia.html>). The goal of the symposium is to bring together evolutionary biologists working in marine systems across the globe and highlight scientific and technological advances in the field (See a more detailed summary below)

If you work with evolutionary marine biology we would be very happy if you consider submitting your talk to our session! Talks that are not selected for a symposium will nevertheless be placed in one of the general sessions.

Montreal Networks Jul26-30

Dear Colleagues,

We are organizing a symposium on "Networks in Population Genetics and Phylogenetics: Theory, Methods, and Applications" at the 3rd Joint Congress on Evolutionary Biology < <https://www.evolutionmeetings.org/> > (July 26-30, 2024, Montréal, Canada) and would like to encourage you to submit an abstract to this symposium.

The symposium will focus on evolutionary networks such as ancestral recombination graphs, admixture graphs, and phylogenetic networks. It will feature the latest theoretical and methodological advances in robustly inferring networks as well as showcase novel applications. We strongly encourage submissions from both method developers and empiricists.

Registration for the conference has just opened. When submitting an abstract, you will have the option to se-

lect 1st and 2nd choice symposia to speak in. Please consider submitting your abstract to our symposium.

Please forward this information to any trainees, collaborators, etc. who are interested in speaking in the symposium. We hope to see you at the conference this summer!

Best wishes,

Cecile Ané (cecile.ane@wisc.edu), Puneeth Deraje (puneeth.deraje@mail.utoronto.ca), John Rhodes (jarhodes2@alaska.edu), and Kristina Wicke (kristina.wicke@njit.edu)

Symposium abstract: Historical reticulation events, including recombination, gene flow and hybridization, leave signals in the variation among genomic sequences. Networks, such as ancestral recombination graphs, admixture graphs, and phylogenetic networks, depict these reticulations, showing genealogical relationships between individuals, populations, and species. Genome-wide sequencing and new methodologies now allow for the disentangling of different biological processes at play and the inference of such networks from shallow to deep time scales. This symposium will be a hub for the latest theoretical and methodological advances in robustly inferring networks, as well as a showcase for novel applications. The symposium will highlight advances across network fields and facilitate further crosstalk between them, building on the common mathematical structures they share while acknowledging important biological differences.

Kristina Wicke <kristina.wicke@njit.edu>

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connections across different systems as well as across ecological and evolutionary contexts. Research themes could include, but are by no means limited to, the plasticity of sexual signals in different ecological contexts, impacts of anthropogenic changes on reproduction, and contemporary evolution of secondary sexual traits. The abstract is provided at the end of the message.

Registration is now open, and abstracts can be submitted to be considered for this symposium. Please see 2024 Conference info (evolutionmeetings.org) for meeting info. If you have any questions about the symposium, don't hesitate to contact the organizers.

Brian Lerch (blerch@live.unc.edu) Sarah Flanagan (sarah.flanagan@canterbury.ac.nz)

Symposium abstract: It is well established that ecological context is critical for shaping the evolution of ecologically relevant traits such as those controlling resource acquisition. However, despite the key role of reproductive traits for shaping fitness outcomes, less attention has been paid to understanding and synthesizing how ecology influences their evolution. Our symposium will fill this gap by highlighting the role of ecology in shaping the evolution of reproductive traits and welcome research on the impacts of reproductive trait evolution on ecological processes. Research themes could include the plasticity of sexual signals in different ecological contexts, impacts of anthropogenic changes on reproduction, contemporary evolution of secondary sexual traits, among many others. By bringing together research on a broad range of taxa and from diverse perspectives, we hope to yield insight into the role of ecology for the evolution of reproductive traits.

“Lerch, Brian” <blerch@live.unc.edu>

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Montreal
Reproductive Trait Evolution
Jul26-30

We will be organizing a symposium on “Ecology and the evolution of reproductive traits” at the 3rd Joint Congress of Evolutionary Biology (July 26-30 in Montreal). Both ecologists and evolutionary biologists have uncovered a wide range of contexts in which ecology dramatically shapes the evolution of many reproductive traits. We hope that this symposium will make clear the broad importance of ecology for the evolution of reproductive traits and allow researchers to make

Montreal
Socially Transferred Materials
Jul26-30

Dear colleagues,

We are really excited to announce that we are organizing a symposium 'Socially Transferred Materials: Convergent evolution and molecular biology' at the 3rd Joint Congress on Evolutionary Biology, which is taking place July 26-30 in Montreal, Canada (<https://www.evolutionmeetings.org/>; registration for the confer-

ence is now open; early-bird deadline May 1st).

Our symposium will include examples of reproductive processes, metabolic division of labour and lesser-known transfer systems, and will include talks by Mariana Wolfner (Cornell Univ.) and Jenny Stynoski (Univ. Costa Rica). The study of socially transferred materials is a broad and emerging field of integrative biology that contains lots of parallels and research opportunities in dramatically different transfer systems that are now mostly studied in isolation. Therefore, we aim to connect researchers focusing on different forms of socially transferred materials to foster cross-fertilisation, and to collectively identify unifying concepts and experimental priorities for understanding their role in evolution as well as the underlying molecular mechanisms.

So, if you work on milk, ejaculate, regurgitate, mucus, eggs or some lesser-known social transfer we look forward to considering your contribution to our symposium. If you are not sure whether your topic fits, feel free to contact us.

Adria LeBoeuf: acl79@cam.ac.uk Joris Koene: joris.koene@vu.nl

Symposium abstract: Many organisms have evolved to transfer materials which go beyond gametes, nutrients and microbes. These are defined as socially transferred materials when they are transferred between conspecifics and include components that have been metabolized by the donor and induce a direct physiological response in the receiver, bypassing sensory organs. While these transfers benefit the donor, they can also influence the fitness of the recipient either positively or negatively, i.e. resulting in cooperation or conflict. Examples include milk, seminal fluids, eggs, skin secretions and regurgitate. In this symposium we aim to bring together experts on these and lesser-known socially transferred materials. These materials, and the genes that enable their transfer, provide a new, proximate perspective on convergent molecular evolution of very different transfer systems and is expected to lead to deep insight into ultimate, (social) selection pressures of cooperation and conflict.

Dr. Joris M. Koene Associate Professor at Vrije Universiteit Amsterdam <http://www.joriskoene.com> Ecology & Evolution Amsterdam Institute for Life and Environment (A-LIFE) Vrije Universiteit Visiting address: De Boelelaan 1108, 1081HZ, Amsterdam Mail address: Van der Boechorststraat 3, 1081 BT, Amsterdam THE NETHERLANDS tel: +31 (0)20 5987095 joris.koene@vu.nl

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[https://research.vu.nl/-/Koene, J.M. \(JM\)](https://research.vu.nl/-/Koene,%20J.M.%20(JM))

[<joris.koene@vu.nl>](mailto:joris.koene@vu.nl)

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Montreal UrbanEvolEcotox Jul26-30

Dear colleagues,

We are pleased to announce a symposium on “urban evolutionary ecotoxicology” during the 3rd Joint Congress on Evolutionary Biology (Montreal, Canada, 26-30 July, <https://www.evolutionmeetings.org/>).

Evolutionary ecotoxicology is a rapidly advancing interdisciplinary field. The aim of the symposium is to bring together researchers from diverse fields, such as urban ecology, ecotoxicology and evolutionary biology to promote a holistic approach to tackle the complex challenges posed by urban pollutants.

We are looking forward to receiving your submissions to our symposium!

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

Josefa Bleu (josefa.bleu@iphc.cnrs.fr)

Marion Chatelain (Marion.Chatelain@uibk.ac.at)

Summary of the symposium: Urban areas cover around 3% of the world’s land surface and are constantly expanding. One of their unique characteristics, compared with any other human-modified ecosystem, is that they concentrate multiple pollutants. This environment impacts organisms’ fitness with consequences at the population, community and ecosystem levels, and ultimately affects the evolution of urban wildlife. Studying evolutionary consequences of exposure to pollutants is a prerequisite for understanding urban evolution. In particular, pollutants can affect mutations rate, sexual selection, parental care, epigenetic, or adaptation. In this symposium, we would like to focus on pollutants relevant for urban areas in order to link urban evolutionary biology and evolutionary ecotoxicology. We welcome submissions tackling the evolutionary consequences of pollutants exposure, the effects of pollutants on mechanisms that may have evolutionary implications, or the interaction between pollutants and evolutionary forces

Josefa Bleu [<josefa.bleu@iphc.cnrs.fr>](mailto:josefa.bleu@iphc.cnrs.fr)

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NewYorkCity TeachingEvolution Jun10-12

Attention evolutionary biologists who teach undergraduates: If you are interested in improving the teaching of data literacy skills in undergraduate biology courses, please see the opportunity below. The Biological and Environmental Data Education Network is looking for biology faculty and instructors to apply to join our third annual network meeting. This opportunity may be particularly interesting to folks who teach introductory biology and both lower and upper level evolutionary biology courses and are looking to bring some data science skills into these classes.

Our third annual meeting of the Biological and Environmental Data Education (BEDE) Network will be held from June 10-12 at Macaulay Honors College in New York City, NY. We can provide travel support for some attendees, and we will also facilitate virtual attendance.

We are a group of scientists and educators who are dedicated to the advancement of data science education in undergraduate biology and environmental science curricula. Our mission is to provide training and resources for educators to empower them to teach data science skills in their classrooms. We want you to be part of our team!

The theme of this year's meeting is Reflecting and Planning for Sustainable Data Education. Guided by this theme, we will introduce the BEDE Network and build community; assess Data Science education needs across the life science instructional landscape; discuss the assessment of BEDE Network initiatives and efforts to fulfill our mission; collaborate on communication, instruction tools, and strategies; and plan for the sustainable future of the BEDE Network.

The final day of the meeting will provide an opportunity to choose your own path, either: (A) participate in an unconference where you can continue to work with a BEDE Network subcommittee, or (B) join an instructor training workshop on incorporating data science skills into undergraduate biology classrooms as a helper or as a learner.

The application process will likely be competitive, based on the number of applications received. We anticipate approximately 20-25 in-person attendees. All biology and environmental science faculty, university- and

college-level instructors, and post-doctoral researchers are welcome to apply. We have a limited number of spots available for graduate students with a passion for teaching. Funding is available from the National Science Foundation to support in-person participants and there is a virtual participation option for those unable to attend in person. We can provide full financial support, including transportation, three nights' accommodation, and meals to successful applicants for in-person attendance.

The deadline to apply is February 26, 2024 and successful applicants will be informed by March 5, 2024.

PLEASE APPLY HERE: <https://forms.gle/gADC8iC85te7B7tq7> In the meantime, join our group on QUBESHub: <https://qubeshub.org/-community/groups/bede> Questions can be directed to bedenetwork@gmail.com

We look forward to welcoming you to the meeting! Kelly O'Donnell (Director of Science Forward, Macaulay Honors College) Sarah Supp (Assistant Professor, Denison University) Nate Emery (STEM Education Coordinator, UC Santa Barbara) Erika Crispo (Associate Professor, Pace University) Matthew Aiello-Lammens (Associate Professor, Pace University)

"Crispo, Erika" <ecrispo@pace.edu>

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Olhao Portugal HostMicrobeSymbiosis Jun10-13

SymbNET International Conference on Host-Microbe Symbiosis

Webpage: <https://igc.idloom.events/symbnet-conference-host-microbe-symbiosis> Where: Real Marina - Hotel & Spa, Olhao, Portugal

When: 10-13 June 2024

About: The "SymbNET International Meeting on Host-Microbe Symbiosis" will bring together researchers working on a diverse range of questions, approaches, and model systems. The meeting will cover different host systems such as plants, animals and humans and different molecular mechanisms, functional understanding and ecological models of the interactions. The purpose is to highlight the most recent advances in the field, com-

mon principles between systems, and future directions to explore. This meeting is organized in the context of the EU twinning grant SymbNET with specific sessions organised by NCCR Microbiomes and CRC Metaorganisms. It will host 200 participants, with all sessions being plenary.

Confirmed Speakers: Marjolein Bruijning | Universiteit van Amsterdam, The Netherlands Luisa De Sordi | Sorbonne University, France Ellen Decaestecker | KU Leuven, Belgium M d ric Diard | Biozentrum, University of Basel, Switzerland Isabel Gordo | Instituto Gulbenkian de Ci ncia, Portugal Nancy Moran | University of Texas at Austin, USA Markus Ralsler | Charit  Universit tsmedizin Berlin, Germany Eduardo Rocha | Institut Pasteur, France Olivia Roth | Kiel University, Germany Pascale Vonaesch | University of Lausanne, Switzerland Michael Zimmermann | European Molecular Biology Laboratory, Germany Sebastian Pfeilmeier | Universiteit van Amsterdam, The Netherlands

Registration Fee and Sponsoring: Register by March 15 - <https://igc.idloom.events/symbnet-conference-host-microbe-symbiosis> Selected applicants will pay a registration fee of 650 EUR.

We will sponsor participants from members of the SymbNET partner institutes, from Widening countries in Horizon2020 or Horizon Europe, or countries with low performance in Research and Innovation.

Organisers: Philipp Engel | University of Lausanne, Lausanne, Switzerland

Migla Miskinyte | Catolica Biomedical Research Centre, Portugal; Instituto Gulbenkian de Ci ncia, Portugal
Hinrich Schulenburg | Kiel University and Metaorganisms CRC, Kiel, Germany

Lu s Teixeira | Catolica Biomedical Research Centre, Portugal; Instituto Gulbenkian de Ci ncia, Portugal
Maria Zimmermann-Kogadeeva | European Molecular Biology Laboratory, Heidelberg, Germany

SymbNET, EU-funded Twinning project Instituto Gulbenkian de Ci ncia (FCG-IGC), Portugal Origin and Functions of Metaorganisms Collaborative Research Centre 1182 (CRC Metaorganisms), Germany NCCR Microbiomes, Switzerland Catolica Biomedical Research Centre, Portugal

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Online ESEB STN Internal Conflicts Mar21

ESEB-funded Special Topics Network: Internal Conflicts and Organismal Adaptation

Seeking expressions of interest

Dear colleagues,

Multicellular organisms are held together by cooperation between their constituent parts: genes, genomes, and cells. It is this intimate integration that allows complex adaptations to evolve. Like any collective, however, multicellular organisms are vulnerable to internal conflicts. This is the focus of this Special Topics Network.

We’re looking to stimulate further research on internal conflicts (interpreted broadly) in a few ways. First, we want to bring together different perspectives to work on conceptual foundations of conflict and organismal adaptation. Second, we want to ensure crosstalk both between those who study organismal adaptations and those who study conflict and between scientists from different points of entry. Finally, we want to promote work on internal conflict that has application in medicine, conservation, or public health.

We have two activities planned for the upcoming year of our STN. First, we will form a community online through virtual events seminars, discussions, brainstorming sessions. The first of these seminars is scheduled for March 21st, 2024, at 14:00 UTC; more information will be sent around in due time. Second, we will run an in-person workshop in Groningen, The Netherlands (in Fall 2024) to catalyze further work.

At the moment, we are looking for interest from the evolutionary biology community. We are especially keen to involve early-career researchers in our STN community (e.g., PhD students, postdocs) as well as (evolutionary) biology students. If you would like to get on our mailing list and take part in our upcoming events, please sign up via <https://shorturl.at/ekFNS> or visit <https://internalconflictsstn.wordpress.com/> for more information.

Sincerely,

Martijn Schenkel (m.a.schenkel@rug.nl),
Arvid  gren (agrenj@ccf.org), Manus Patten
(mmp64@georgetown.edu), and Nina Wedell
(nina.wedell@unimelb.edu.au)

Dr. Martijn Schenkel Groningen Institute for Evolutionary Life Sciences University of Groningen Visiting: Linnaeusborg, room 5172.0666, Nijenborgh 7, 9747 AG Groningen Postal: PO Box 11103, 9700 CC Groningen, The Netherlands

“Schenkel, M.A.” <m.a.schenkel@rug.nl>

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OnlineSeminar ESEB STN Speciation Mar5

Dear colleagues,

The next instalment of the online seminar series organised by the ESEB-funded STN network $\ddot{i}_i \frac{1}{2}$ Integration Of Speciation research $\ddot{i}_i \frac{1}{2}$ ([<https://speciation-network.pages.ist.ac.at/>]) will be held on 05 March 2024, 9 am CET.

The upcoming session addresses the topic of “Paleontological views on speciation”. We welcome speakers Erin Saupe (University of Oxford, UK) and Rachel Warnock (FAU Erlangen-Nürnberg, Germany).

The session will last 1.5 hours, with the first hour dedicated to talks from our speakers followed by questions. The last half-an-hour is dedicated to a more general discussion.

To attend the session live, please use the following link: <https://gu-se.zoom.us/j/65723839495> Talks (but not the discussion session) are recorded and made available here: https://www.youtube.com/channel/UCIEkDdE_5sDw70SQq78DIAA . The IOS network aims to promote scientific integration and also integration of the community. A main objective on this front is to foster diversity and inclusion across the field. The seminar series and subsequent discussion is open to everyone, from students to established researchers and non-scientists alike. In order to maximise the geographic diversity of attendees, we will alternate between two time slots every other month: 5 pm CET and 9 am CET. Please help us to circulate this email to anyone who may be interested, especially those in countries that are typically underrepresented in scientific discourse.

The programme of the seminar series is announced by email, on Twitter (@Speciation_net) and on the IOS network website. People who wish to automatically receive the programme and other news from the IOS

network can sign up to the network mailing list from the IOS website.

We look forward to seeing you there!

The STN IOS organising committee:

Jonna Kulmuni (chair), Chris Cooney, Sean Stankowski, Carole Smadja (co-chairs), Sonal Singhal, Liz Scordato, Joana Meier, Richard Merrill, Konrad Lohse, Nick Barton and Roger Butlin

NERC Research Fellow School of Biosciences University of Sheffield www.cooneylab.co.uk Chris Cooney <c.cooney@sheffield.ac.uk>

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Online Vienna PopulationGenetics Tuesdays

Dear colleagues,

The Vienna Graduate School of Population Genetics runs an internationally recognized seminar series featuring weekly talks by leading experts in population genetics. We invite interested listeners to join our webinars during the upcoming Summer term (Tuesdays at 17:00 CET/CEST).

Sign up here to receive regular webinar announcements and zoom links for the upcoming term: <https://forms.gle/eaWbQEWvEN9A1z4CA> Schedule:

12.03.24 - Laura Hayward (Institute of Science and Technology Austria, AT) Polygenic adaptation with pleiotropy.

19.03.24 - Thomas Lenormand (CNRS, CEFÉ Montpellier, FR) Regulatory evolution, sex chromosomes and speciation.

09.04.24 - Otto X. Cordero (Massachusetts Institute of Technology, US) tba.

16.04.24 - Hannah G $\ddot{i}_i \frac{1}{2}$ tisch (Univ. of Vienna, AT) Polygenic Puzzles: Investigating quantitative traits under directional selection.

23.04.24 - Molly Schumer (Stanford Univ., US) Unraveling the tangled web: Genetics and evolution in natural populations.

30.04.24 - Anna Maria Langm $\ddot{i}_i \frac{1}{2}$ ller (Univ. of Vienna, AT) Gaussian Process Emulation: an application in epidemiology.

07.05.24 - Moisés Expósito-Alonso (Univ. of California, Berkeley, US) Rapid evolution across climates in globally distributed experiments of an annual herb.

14.05.24 - Nicolas Galtier (Univ. of Montpellier, FR) Phylogenetic conflicts: distinguishing gene flow from incomplete lineage sorting.

21.05.24 - Darren Obbard (Univ. of Edinburgh, UK) Mutation, recombination, and transposition in *Drosophila* dae.

28.05.24 - Benjamin Blackman (Univ. of California, Berkeley, US) Tracing sunflower domestication through space and time with archaeological DNA.

04.06.24 - Christian Landry (Univ. Laval, CA) Evolution of protein-protein interactions after gene duplication.

11.06.24 - Rasmus Nielsen (Univ. of California, Berkeley, US) Population genetic inferences using ancestral recombination graphs.

18.06.24 - Charles Baer (Univ. of Florida, US) Exploring heritable variation in mammalian cells.

25.06.24 - Nancy Chen (Univ. of Rochester, US) Tracking short-term evolution in a pedigreed wild population.

Webinars organised by the Vienna Graduate School of Population Genetics are listed on our website <https://www.popgen-vienna.at/news/seminars/>

Many talks are recorded and can be found on youtube: <https://www.youtube.com/channel/UCAdGx2zyQNYvti9Cr1muhUg> Dr. Julia Hosp

Vienna Graduate School of Population Genetics Coordinator

www.popgen-vienna.at <https://twitter.com/PopGenViennaPhD> c/o Institut für Mathematik, Universität Wien & Institut für Populationsgenetik, Veterinärmedizinische Universität Wien

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Paris Conservation Genomics Jun5-6

Join us at the Muséum National d'Histoire Naturelle in Paris on June 5-6, 2024 for a two-day conference dedicated to exploring the intersection of genomics and conservation, with a particular focus on practical applications of genomics to immediate conservation needs. Participants and invited speakers include applied conservation practitioners, method developers, and genomics

researchers. The conference aims to foster dialogue and encourage exchange of ideas across disciplines, especially between researchers and practitioners, and contributions from conservation managers and other applied practitioners are encouraged. Talks will explore both practical applications of genomics in conservation, and using genomics to make inferences of parameters of relevance to conservation biology (such as recent population history and mutation load).

Meeting website with further details: <https://conservgenomics.sciencesconf.org/> Invited speakers include: - Marc Stalmans, Gorongosa National Park, Goinha, Mozambique - Lisa Komoroske, University of Massachusetts Amherst, USA - Nicolas Poulet, Office Français de la Biodiversité, Toulouse, France - Guillaume Achaz, Collège de France, Paris, France - John Novembre, University of Chicago, USA - Pier Francesco Palamara, University of Oxford, United Kingdom - Jazlyn Mooney, University of Southern California, Los Angeles, USA - Thibaud Capblancq, Laboratoire d'Ecologie Alpine, France - Katerina Guschanski, Uppsala University, Sweden - Marta De Barba, University of Ljubljana, Slovenia

Registration (free, but capped at 120 participants) and abstract submission for contributed talks or posters is now open at: <https://conservgenomics.sciencesconf.org/> Tim Sackton, on behalf of the organizing committee: Guillaume Achaz, Collège de France, Paris, France Simon Boitard, Centre de Biologie pour la Gestion des Populations, Montpellier, France Raphaël Leblois, Centre de Biologie pour la Gestion des Populations, Montpellier, France Stefano Mona, Institut de Systématique et Evolution, Paris, France Dmitri Petrov, Stanford University, Palo Alto, USA Tim Sackton, Harvard University, Cambridge, USA

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

tsackton@g.harvard.edu

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Prague Microbiome Jul2-5

Interested in host-microbiome research? Join Society for Experimental Biology conference 2024, July 2-5 in Prague, on a session on microbiome:

Invisible friends: microbiome in eco-evolutionary research

All organisms harbour microbes, and their key role on host animal health and disease is established. However, causative data from wild species and populations is still relatively scarce, and taxonomical coverage in microbiome studies is limited. Insights into which factors shape the communities of microbial symbionts, what functional roles they provide to the host, and how they contribute to host adaptation still remain to be explored. This symposium will highlight novel findings in eco-evolutionary host-microbiome research, encompassing fine-scale molecular and physiological questions, broadening to whole organism and population level approaches, while also addressing methodological and theoretical issues across animal taxa.

SEB Conference Prague 2024 | The Society for Experimental Biology (SEB) (sebiology.org)

Keynote speakers: Tamsyn Uren-Webster, Swansea University: Can microbiome plasticity enhance host tolerance of environmental stressors?

Samantha Fontaine, Kent State University: The role of the microbiome in ectotherm thermal biology

David Diez-Mendéz, University of South Bohemia: Gut colonization in avian early-life: the preponderance of maternal effects in bacterial acquisition

Mason Stothart, University of Calgary: Straight from the Sable Island horse's mouth: selection and transmission of gut microbiome variation in the wild

Abstract submission for the session is now open, deadline 8th March 2024. Conference registration earlybird deadline 24th April 2024.

See you there! Session organizers Suvi Ruuskanen, Charli Davies and Silva Uusi-Heikkilä

Suvi Ruuskanen

Associate Professor in Environmental Physiology Department of Biological and Environmental Science University of Jyväskylä, Finland Adjunct professor, visiting researcher Department of Biology University of Turku,

Finland Mobile +358503256547 Environmental Physiology Lab | University of Jyväskylä (jyu.fi) Twitter: @RuuskanenSuvi

“Ruuskanen, Suvi” <suvi.k.ruuskanen@jyu.fi>

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PuertoIguazo WoodpeckerEvolution Aug11-14

3rd announcement: International Woodpecker Conference in Puerto Iguazú $\frac{1}{2}$, Argentina, 11-14 August 2024 - submission and payment open

We would like to inform you that registration and payment are now open for the 9th International Woodpecker Conference in Puerto Iguazú $\frac{1}{2}$, Misiones province, Argentina, from 11 to 14 August 2024, at the conference website <https://iguazu2024woodpeckers.com/>. Submission of an abstract for an oral presentation or a poster is now possible, as is payment of registration fees. Early bird registration at a reduced inscription fee, with submission of an abstract for a contribution, will be open until 30 March 2024. Registration and submission of a contribution at the standard inscription fee is possible from 31 March until 31 May 2024. From 1 June through 11 July 2024 registration at the standard inscription fee is still possible but no abstracts for contributions will be accepted.

On the website you can find information about the conference, the venue, the plenary speakers, how to submit a contribution, conference proceedings, how to travel to Puerto Iguazú $\frac{1}{2}$, birdwatching, lodging and eating options in Puerto Iguazú $\frac{1}{2}$, information on visiting the Iguazú $\frac{1}{2}$ Falls, bird watching companies and lodges for optional pre- or post-conference excursions, as well as possibilities for independent travel.

Argentina has a high diversity of forest ecosystems and of woodpeckers, including globally threatened species, and there are several research groups doing in-depth studies on woodpeckers in the country, including on ecology, conservation, paleontology and anatomical adaptations. Argentina has an extensive network of national parks and provincial parks. With a newly elected national government that came into power on 10 December 2023, there are intentions for cuts in publicly funded research, privatizations of protected areas, and rollbacks in environmental laws including for forest protection.

These plans are contested by affected employees, NGOs, provincial governments and courts. We encourage your participation in the conference to show an international interest in Argentina's forests and ecological research, and for Argentinean woodpecker researchers to have the opportunity to network with researchers from elsewhere.

The conference is organized by The Special Interest Group "Woodpeckers" (SIG) of the German Ornithological Society (DO-G) in conjunction with the Instituto de Biología Subtropical (IBS-UNAM-CONICET). We look forward to welcoming you in Puerto Iguazú! Elena Ballenthien, Kerstin Hentsch, Michael Lanz (SIG chairs), Gilberto Pasinelli and Martjan Lamertink (head of local organizing committee).

Gilberto Pasinelli <gilberto.pasinelli@vogelwarte.ch>

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SMBE Mexico Animal Paleogenomics Jul7-11

Dear all,

We invite you to submit abstracts to the SMBE 2024 symposium "Animal paleogenomics beyond higher latitudes". This year SMBE will take place from July 7 to 11, 2024, in Puerto Vallarta, Mexico.

We aim to provide a platform to share animal paleogenomics research (including historical DNA) in the tropics and sub-tropics, including fields such as population genetics, evolutionary biology, sedimentary DNA and conservation biology, to name a few. We are excited to have as invited speakers Dr. Selina Brace (Natural History Museum, London, UK) and Dr. Viviane Slon (Tel Aviv University, Tel Aviv, Israel). You can find more information about the conference at: <https://smbe2024.org/> (we are topic 4, session 13).

If you want to participate in this symposium, submit your abstracts before the 15th of March at this link: <https://smbe2024registration.org/abstracts>. Don't forget to register by May 10 for Early Bird for registration rates!

This year SMBE has special registration discounts for LMIC. You can also apply to the usual SMBE travel awards while submitting your abstract. This list includes: Graduate Student Excellence Award, Undergraduate Mentorship Award, Young Investiga-

tor Travel Award, Caregiver award. Please visit the <https://smbe2024registration.org/abstracts> and <https://smbe2024registration.org/> for more information.

We are looking forward to reading all your abstracts, and to welcome you in Puerto Vallarta in July!

Sincerely,

Maria Zicos, J. Camilo Chacón-Duque, Deon de Jager and Federico Sánchez Quinto

Camilo Chacón-Duque <camilo.chaconduque@su.se>

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SMBE Mexico CallForAbstracts TravelAwardApplications

Dear Colleague,

The Society for Molecular Biology and Evolution is now accepting abstracts for the 2024 annual meeting. SMBE 2024 will take place in Puerto Vallarta, Mexico on July 7-11, 2024. Abstracts can be submitted to request participation as an oral or poster presentation on 37 different symposia. The deadline for submitting an abstract is March 15, 2024.

Visit the 2024 meeting website <http://smbe2024.org/> to register and submit an abstract for SMBE 2024. This year SMBE is offering registration rate discounts for low or middle income countries (LMIC). Register to SMBE 2024 before May 9 to have an Early Bird rate. Please direct any questions regarding abstract submission to attendancesmbe2024@gmail.com.

SMBE 2024 Awards can only be applied to when submitting an abstract at <http://smbe2024.org/>. The list of awards include:

Young Investigator Travel Award. Attending a major conference is important for young researchers because it allows them to present their work to an expert audience and gives them the opportunity to make useful contacts. However, SMBE recognizes that travel funds may not be easily available at this career stage. Postdoctoral researchers and graduate students may apply for travel awards to attend the annual SMBE meeting.

The SMBE Graduate Student Excellence Award.- This prize is given to the best presentation at the Graduate Student Excellence symposium which features talks

from eight graduate students. Eligibility: Current graduate students and postdoctoral researchers who received their primary doctoral-level degree no earlier than one year prior to the start of the annual meeting of the society (minus any career disruption or delay). A candidate for the award must become a member of the Society at least a month before the first day of the annual meeting. You must also email your Curriculum Vitae to smbe.ks@kwglobal.com. **The deadline for applications for this award is March 15th.**

The Undergraduate Mentorship Award provides support, advice and networking opportunities for undergraduate students (including Masters students under a 3+2 system) as they navigate their first international conference. Applicants for this award must be presenting their own work as a poster or talk at the conference. Applicants must email a short explanation (250 words) of why they want to attend this meeting, including a mention of whether you fall into a group traditionally underrepresented at SMBE (e.g. enrolling in university later in life, or being the first in your family to attend university). A short letter of support (250 words) should also be sent from your academic supervisor to attendancesmbe2024@gmail.com confirming that you are undergraduate (or a Masters student under 3+2), and that the research to be presented is your own. **The deadline for applications for this award is March 15th.**

Awardees are granted up to US \$2500 for travel within the same continent, and up to US \$3500 for long-haul travel. Reimbursements are processed after the meeting and awards may claim travel, accommodation and meeting registration expenses. Please review the information required to apply at the abstract registration URL.

Caregiver award is open for SMBE members with expenses for the care of children or dependent adults (including adult children with a disability or elderly relatives) during their attendance at the annual SMBE meeting. The amount requested can be up to \$2000 USD. Please review the information required to apply through the abstract registration URL. **The deadline for applications for this award is March 15th.**

The Local Organising Committee smbe2024@gmail.com

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

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SMBE Mexico GreenComputingMethods Jul7-11

Hello,

You are invited to submit an abstract to the SMBE 2024 Symposium, focusing on “Greener and Sustainable Computing in Molecular Evolution” (Symposium #36). This symposium will feature contributions in the form of new and improved methods, algorithms, software, and protocols, which are also energy-efficient and accurate.

Please review the description of symposium #36 at smbe2024.org to increase your chances of being selected. Authors of selected abstracts will give a platform (oral) presentation in person and become eligible to apply for travel support covering airfare and/or registration fees post-selection.

This year’s conference will be held in Puerto Vallarta, Mexico, with the abstract submission deadline of March 15 (smbe2024registration.org/abstracts).

For any inquiries, contact: - Sudhir Kumar at s.kumar@temple.edu - Claudia Russo at claudiaamrusso@gmail.com

Sudhir Kumar <s.kumar@temple.edu>

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UCampinas Brazil PlantFungalInvasions Jun26-29 TravelGrant

Ecological and evolutionary consequences of plant-fungal invasions 45th New Phytologist Symposium - Travel grant applications closing soon <https://npf-events.evessiocloud.com/45NPS/en/page/home> We would very much appreciate your help to get the word out about the upcoming 45th New Phytologist Symposium, Ecological and evolutionary consequences of plant-fungal invasions, taking place 26-29 June 2024 at the University of Campinas, Brazil.

We have travel grants available and are accepting ab-

stract submissions for both oral and poster presentations.

The deadline to apply for a travel grant is 1 March.

Please share this opportunity with your wider department/colleagues.

Registration rates for students and early career researchers and researchers from low/middle-income countries are significantly subsidised.

Additional promotional materials, including PowerPoint slides and social media posts that you can share are also available to download on our website (<https://npf-events.evessiocloud.com/45NPS/en/-page/symposium-promotion>)

Further details of the symposium are below and on the website. <https://npf-events.evessiocloud.com/45NPS/en/page/home> Best wishes Christine Events and Promotions Manager The New Phytologist Foundation np-symposia@lancaster.ac.uk

Ecological and evolutionary consequences of plant-fungal invasions: 45th New Phytologist Symposium

26-29 June 2024, UNICAMP, Brazil Organised by Laszlo Nagy, University of Campinas Erika Buscardo, University of Brasília Miranda Hart, University of British Columbia Okanagan Jason Hoeksema, University of Mississippi

Registration and abstract submission for the 45th New Phytologist Symposium are open. Deadlines for abstract submission are:

Travel grants and oral abstracts: 1 March Poster abstracts: 1 April

A two-day pre-symposium workshop on “Metabarcoding and Metagenomics, powerful tools to explore the ecological dimension of biological invasions” will also be held from Monday 24 June 2024. See the programme for full details of sessions and confirmed speakers.

<https://npf-events.evessiocloud.com/45NPS/en/-page/preliminary-programme> “Phillips, Christine” <c.phillips3@lancaster.ac.uk>

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URennes France Hermaphrodites Apr23-24

We are pleased to announce that this year’s Simultaneously Hermaphroditic Organisms Workshop (SHOW) will be held at the Université de Rennes, France, from 23-24 April 2024.

Registration deadline: 29 February.

SHOW is an annual meeting of researchers working on questions related to the evolutionary biology of sex in hermaphrodites. Contributions on both simultaneously and sequential hermaphrodites in any organismal group are welcome and indeed we hope to attract researchers who can offer a variety of different perspectives.

More details and a link to register at: <https://macrostomum.wordpress.com/simultaneously-hermaphroditic-organisms-workshop/> We hope to welcome you to Brittany soon!

On behalf of the SHOW 2024 organising team, Elise Jeanne Sarthak Grover Elena Breitenberger & Steve Ramm

Dr. Steven RAMM Chaire de Recherche Rennes Métropole Chaire de Professeur Junior

UMR 6553 ECOBIO - Ecosystèmes, Biodiversité, Evolution Université de Rennes Campus de Beaulieu 263 avenue Général Leclerc 35042 Rennes Cedex FRANCE

steven.ramm@univ-rennes.fr <https://ecobio.univ-rennes.fr/interlocuteurs/steven-ramm> Steven RAMM <steven.ramm@univ-rennes1.fr>

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Vienna MathModelsEvolution Jul15-18

Dear MMEE community,

On behalf of the organizing committee, I am happy to announce that *_registrations_* for the next MMEE conference (Mathematical Models in Ecology and Evolution, Vienna July 15 to July 18 2024) are open.

We are now accepting *submissions of talks* (15-25 minutes) and posters.

If you are interested, please submit a proposal at

<https://ps-mathematik.univie.ac.at/e/-index.php?event=mmee2024&page=talks>

The deadline for submission is March 30, 2024. The deadline for registration is April 30, 2024.

Please visit the following webpage for practical information and a list of plenary speakers. <https://ps-mathematik.univie.ac.at/e/-index.php?event=mmee2024>

We are looking forward to welcoming you this summer.

Best Regards,

Emmanuel Schertzer

University Professor of Mathematics Mathematics Department, University of Vienna. Morgenstern Platz 1, 1090 Vienna

MMEE2024 <mmee2024@univie.ac.at>

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YosemiteNatlPark Symbiosis Apr19-21

Dear Colleagues,

Registration is now open for the 12th annual Yosemite Symbiosis Workshop, taking place on April 19-21st, 2024 at the Sierra Nevada Research Institute, Yosemite National Park. In the previous 11 years, this meeting became a great venue for a diversity of symbiosis researchers.

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

KEYNOTE SPEAKER: Kabir Peay, Stanford University <https://mykophile.stanford.edu/> REGISTRATION IS OPEN: <https://snri.ucmerced.edu/form/-symbiosis-workshop-2024> More updates here: <https://www.sachslab.com/symbiosis-2015.php> Why: Our goal is to better integrate scientists that focus on symbiosis research, including researchers that study animal-microbe and plant-microbe systems, as well as broader topics related to the microbiome, cooperation, and mutualism. This will be our 12th annual meeting and we have been consistently attracting scientists from all over the country and overseas.

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

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

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

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

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

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

Awards will require an abstract. Registration awards will be merit based depending on the research quality of your title and abstract. After the first 35 graduate students and postdocs register, you will be put on a waitlist. Given the limited number of spots, we ask you to please – please – not register unless you are confident that you can make it to Yosemite April 19-21, and to let us know as soon as possible if after all you can't make it.

Please direct any questions to the organizers:

Joel Sachs joels@ucr.edu A. Carolin Frank cfrank3@ucmerced.edu

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

92521

Joel Sachs <joels@ucr.edu>

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GradStudentPositions

AdamMickiewiczU Poland HumanSexualSelection . 25	UDEbrecen Madagascar 38
Czechia InsectMicrobeCoevolution 26	UHamburg Germany EvolutionaryGeneticsImmunity 39
FrenchGuiana PalmsEvolution 27	UIdaho ConservationGenomicsPygmyRabbits 40
HelmholtzCentre Germany PlantEvolution 27	ULiege ParentalEffects 41
LIB Bonn PopulationGenomics 28	ULille PolyploidySelfincompatibility 42
LundU SystematicsBiogeographyDioecy 29	UMainz EvolPlantHerbivore 42
MichiganTechU PlantEvolution 30	UOslo AdaptationGenomicsSparrows 43
MPIBI Seewiesen EvolutionCognition 30	UOttawa ConservationGenomicsPlants 43
NewMexicoStateU AlgalEvolution 31	UPadua ClimateChangeMitigationInBivalves 44
NHM UOslo EvolutionaryBiology 32	UppsalaU EvolutionLichenPhotobionts 45
Oslo PaleobiologyMacroevolution 33	UppsalaU WolverineMicrobiomes 46
Seattle HalibutEvoDevo 33	USouthernMississippi MarineEDNA 47
Sorbonne Paris AntEvolution 34	UTours Two SocialInsectEvolution 47
Toulouse MalagasyLandscapeGenetics 35	UZurich ExperimentalEvolution 48
TrentU Ontario SalamanderEvolution 36	Vienna PopulationGenetics 48
Turku Finland HumanGenomics 37	WageningenU AntibioticResistanceEvolution 48
UAuckland NewZealand ReproductiveDivisionOfLabour 37	Wurzburg Germany MothAdaptationToLight 49

AdamMickiewiczU Poland HumanSexualSelection

Position: Ph.D. candidate

One Ph.D. candidate position is now available to work on mechanisms and evolution of post-copulatory mate choice in humans in a new research group in the Institute of Human Biology and Evolution at Adam Mickiewicz University in Poznań, Poland.

The position is part of a project funded by Polish National Science Centre: Condition-dependent mechanisms of gamete-level mate choice (postmating sexual selection) in humans. The project will test the role of immunocompetence of a male in cryptic female choice on the gamete level, in order to shed a light on post copulatory sexual selection in humans. The main aim of the project is to

investigate how the male condition, measured as the ability to recognize pathogens, affects sperm performance in the post-mating context in humans.

The Ph.D. candidate will use methods from experimental and evolutionary biology, molecular biology and computational genomics (phenotypic assays, wet-lab, MinION Nanopore sequencing).

We seek a colleague with solid knowledge in the principles of molecular and evolutionary biology, basic knowledge of genomics/transcriptomics, statistics, keen to work in a team and highly self-motivated. Applicant with M.Sc. degree in biology, biotechnology or related fields and expertise in basic molecular methods such as DNA/RNA extraction, protein isolation, PCR, western blot, etc. are encouraged to apply. There is opportunity to learn new skills by participation in dedicated training courses on subjects related to the project and short research visits to institutions involved with the project.

The position is full-time and available for 36 months starting from October 2024. Salary: 5000PLN/month

(after taxes ~3500PLN) You will join a recently started research group led by Aleksandra ukasiewicz.

The application should include i.e. professional CV including scientific achievements, cover letter summarizing previous work experience and future interests, contact information for one or two professional references, and be addressed to dr Aleksandra ukasiewicz, a.lukasiewicz@amu.edu.pl

Please include in your offer: "I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation)."

Application deadline: 31.05.2024

Candidates will be selected through an open competition, the competition will be open until a suitable candidate is found who meets all the requirements

Any questions? Do not hesitate to contact via email: a.lukasiewicz@amu.edu.pl

Aleksandra ukasiewicz <aleks.lukasiewicz@gmail.com>
(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca)

Czechia InsectMicrobeCoevolution

Ph.D. position in insect-microbe coevolution

Location: Laboratory of Insect Symbiosis, Institute of Entomology, Biology Centre in Åeské BudÅ, Czechia (<https://bucek-lab.org>)

Supervision: Thomas Bourguignon (OIST, Japan) and AleÅ¹ BuÅek Starting date: April 2024 (negotiable)
Application deadlines: March 14, 2024

Project outline:

Termites host diverse symbiotic communities in their guts consisting of protists, archaea, and bacteria. Termite colonies also host inside their nests diverse arthropods - particularly rove beetles (Staphylinidae: Aleocharinae). The Ph.D. project will focus on the study of this tripartite termite-beetle-microbe association, which evolved many times independently but has never been investigated. The successful candidate will

use phylogenetics and comparative genomics of bacterial symbionts of both termites and termitophiles to study the coevolution between termites, their microbes, and their termitophilous beetles. We have already generated sequence data for a large number of termites, termitophilous beetles, and the non-termitophilous relatives of beetles and have extensive collections of preserved specimens, which will give the Ph.D. candidate a head start with their analyses. Collection of additional specimens is encouraged if the successful candidate wants to do fieldwork.

We require - curiosity and enthusiasm about insects and their evolution - excellent written and spoken communication ability in English - MSc degree in biology, bioinformatics, or related fields

We offer - supportive research environment with an international community situated in a green campus of the most bicycle-friendly city in Czechia - starting monthly net compensation based on previous experience ~ 1,000- 1,200 EUR consisting of student scholarship and salary, competitive within Czechia (note that the living cost is generally lower in Czechia compared to countries in Western Europe) - participation in international collaborations (especially Japan)

The following previous experience will be seen favorably: Evolutionary biology | termite and/or beetle taxonomy | R/Python/Bash | wet lab experience with next-generation sequencing | bioinformatics and next-generation sequence data analysis | phylogenetics

Apply by sending a single pdf including a motivation letter (~ 1 page), CV, and contact information for two reference persons (one of them preferably a previous supervisor) to Thomas Bourguignon (Thomas.bourgui@gmail.com) and AleÅ¹ BuÅek (ales.bucek@entu.cas.cz). Inquiries for further details are welcome.

Ales Bucek <bucek.ales@gmail.com>

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FrenchGuiana PalmsEvolution

Location : Cayenne, French Guiana Ph.D. Start Date: September 1, 2024 Grant Duration: 36 months

ERC-funded PhD in Evolutionary Genomics of Amazonian palms.

As part of the ERC Starting Grant DOPAMICS project, we are offering a PhD position in Evolutionary Genomics of Amazonian palms in Cayenne (French Guiana), under the supervision of Mathieu Chouteau (HDR, CNRS UAR LEEISA) and Louise Brousseau (IRD UMR AMAP, DOPAMICS project coordinator).

DOPAMICS investigates how climatic adaptation and ancient domestication have influenced the microevolutionary history of Amazonian palms and shaped the diversity of forest landscapes in French Guiana. Within WP3, the proposed topic will aim to retrace the microevolutionary history of palms using “omics” approaches, drawing on genomic data acquired through a large-scale exon capture experiment, and on fruit metabolomic data acquired by GC-MS.

We are seeking a candidate with a Master degree in Ecology/Evolution or Bioinformatics and a strong interest in Evolutionary Ecology and Genomics for a recruitment on 01/09/2024.

Detailed information is available here: <https://euraxess.ec.europa.eu/jobs/187422> Applications must be submitted on the “IRD Emploi” website by 26/04/2024: <https://emploi-recrutement.ird.fr/offre-de-emploi/emploi-contrat-doctoral-en-genomique-evolutive-des-palmiers-d-amazone-h-f.182.aspx>
Mathieu Chouteau and Louise Brousseau

Chargé¹/₂ de recherche CNRS USR MIXTE 3456 LEEISA Centre de Recherche de Montabo 275 Route de Montabo 97300 Cayenne CEDEX Guyane Frani¹/₂aise 0694 40 39 61 (5h de moins que la France Mi¹/₂tropolitaine)

Mathieu Chouteau <mathieuchouteau@hotmail.com>

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HelmholtzCentre Germany PlantEvolution

The Department of Species Interaction Ecology offers a PhD position within the project “Climate niches and species immigration in grasslands under global change”. The aims of this project are to investigate i) the role of climate niches for species response to experimental future climate and ii) how demography and functional traits may explain the establishment success of immigrating plant species into grasslands of different land-use intensity exposed to climate change.

The PhD researcher will work in the large experimental platform Global Change Experimental Facility (GCEF), where future climate is simulated in grasslands managed with different land-use intensity. The candidate will have the opportunity to use already existing data from the grasslands of the GCEF to ask whether the climate niche of species predicts performance in future climate. Further, the candidate will establish a novel seed-addition experiment and quantify if functional traits explain establishment success in experimental treatments.

The project will be supervised by Dr. Lotte Korell and is in close cooperation with PD Dr. Christiane Roscher and Prof. Isabell Hensen.

Your tasks

- ? Independent planning and implementation of fieldwork in theGCEF
- ? Data sampling of functional traits, plant demography and plant community variables
- ? Determining species? climate niches and linking them to plant responses
- ? Statistical analyses of the effects of experimental treatments on plant responses based on your own measurements and existing data
- ? Writing and publishing papers in peer-reviewed international journals
- ? Presenting results at national and international conferences

Your profile

- ? Master of Science in ecology, botany or related field
- ? Interest and, preferably, practical experience in ecologicalfield research

? Solid knowledge of vascular plant species and plant morphology

? Experience in the field of plant demography and population dynamics is an asset

? Expertise in statistical data analyses (preferentially using R) is expected

? Strong organizational skills

? Very good skills in communication/ English language skills

? Ability and motivation to work in an international environment

Deadline for application: 31 March, 2024

Please use the following link to get more information about the position and how to apply:

<https://recruitingapp-5128.de.umantis.com/-Vacancies/2904/Description/2> Dr. Lotte Korell Postdoc at Department Species Interaction Ecology (SIE)

Helmholtz Centre for Environmental Research GmbH - UFZ Theodor-Lieser-Str. 4 / 06120 Halle / Germany Telefon +49 341 6025 4303

lotte.korell@ufz.de

Personal webpage

Sitz der Gesellschaft/Registered Office: Leipzig Registergericht/Registration Office: Amtsgericht Leipzig Handelsregister Nr./Trade Register Nr.: B 4703 Vorsitzender des Aufsichtsrats/Chairman of the Supervisory Board: MinDirig Wilfried Kraus

Wissenschaftlicher Gesch?ftsf?hrer/Scientific Managing Director: Prof. Dr. Rolf Altenburger Administrative Gesch?ftsf?hrerin/Administrative Managing Director: Dr. Sabine K?nig

Lotte Korell <lotte.korell@ufz.de>

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LIB Bonn Population Genomics

Dear colleagues,

There is a fully-funded PhD position of up to 4 years available in my group (<https://bonn.leibniz-lib.de/en/research/research-centres-and-groups/-molecular-biodiversity#mitarbeiter>) to study population variation of the songbird germline-restricted chromosome. The full ad can be found here: [https://8101202752.karriereportal.cloud/job/2024-01-PhD-Student-\(f.m.d\)-](https://8101202752.karriereportal.cloud/job/2024-01-PhD-Student-(f.m.d)-)

Please contact Dr. Yifan Pei <Y.Pei@leibniz-lib.de> with any questions about this project and current/former PhD students with any question about supervision, mentoring, and career development.

Application deadline is March 17, 2024.

Best wishes, Alex

Prof. Dr. Alexander Suh Centre Head Centre for Molecular Biodiversity Research Museum Koenig Bonn Leibniz Institute for the Analysis of Biodiversity Change Adenauerallee 127, 53113 Bonn, Germany phone: +49 228 9122 - 289 email: a.suh@leibniz-lib.de

Group Leader Department of Organismal Biology - Systematic Biology Evolutionary Biology Centre (EBC) Uppsala University Norbyvägen 18D, 75236 Uppsala, Sweden

Stiftung Leibniz-Institut zur Analyse des Biodiversitätswandels Postanschrift: Adenauerallee 127, 53113 Bonn, Germany

Stiftung des öffentlichen Rechts; Generaldirektion: Prof. Dr. Bernhard Misof (Generaldirektor), Adrian Grüter (Kaufm. Geschäftsführer) Sitz der Stiftung: Adenauerallee 160 in Bonn Vorsitzender des Stiftungsrates: Dr. Michael Wappelhorst

Alexander Sang-Jae Suh <A.Suh@leibniz-lib.de>

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LundU SystematicsBiogeographyDioecy

We are recruiting a highly motivated student to undertake PhD studies into the systematics and biogeography of dioecy in the Hawaiian radiation of flowering plants within the genus *Wikstroemia*, based at the dynamic and collegial Biology Department at Lund University, Sweden.

Background: This is the second of 2 PhD positions funded by an ERC starting grant to the principal investigator. The major goal of this research is to understand the genomic changes underlying a critical evolutionary transition in eukaryotic life: the evolution of separate sexes (dioecy) from hermaphroditism via the origin of new sex chromosomes. This work will shed light on how new sex-determining genes and sex-linked genome regions evolve by studying repeated evolutionary transitions from hermaphroditism to dioecy within the endemic Hawaiian radiation of the flowering plant genus *Wikstroemia* (Thymelaeaceae; 12 spp.). The Hawaiian *Wikstroemia* are particularly interesting in this respect because they have evolved at least two, and possibly three, different genetic mechanisms of sex-determination in parallel during what appears to be a recent island radiation.

Note: the start date for this position was originally planned for later in 2024 (as mentioned in an earlier *evolDir* announcement), but has been moved forward to March/April.

PhD opportunity: “Molecular systematics of Hawaiian *Wikstroemia* and the biogeography of sex-determining genes” Anticipated start date: March 2024

The goal of this PhD project is to provide the macroevolutionary context for understanding the evolution of dioecy in the Hawaiian *Wikstroemia* by clarifying both the systematics of the Hawaiian clade within the genus, and the biogeography of sex-linked genome regions and sex-determining genes within the Hawaiian radiation. The major aims of the project are to (i) clarify the phylogenetic relationships among extant *Wikstroemia* species, including estimating the timing of colonization of the Hawaiian archipelago by a hermaphrodite ancestor, and placing the Hawaiian clade within the broader genus-level phylogeny; (ii) perform a phylogenomic and

biogeographic analysis of sex-linked genome regions for each form of dioecy, with the aim of reconstructing the origin and evolution of the different sex-linked genome regions both by a formal historical biogeographical analysis, and also (iii) by studying congruence/discordance between the species tree for the Hawaiian radiation-level phylogeny and gene trees for coding sequences within the sex-linked genome region for each form of dioecy. The Hawaiian *Wikstroemia* have a fascinating evolutionary history, with many possible directions for related systematic and biogeographic questions, depending on the interests of the student.

The project may include field work in Hawaii, but will also involve extensive use of herbaria collections and ‘museomics’, and is suitable for candidates with a background and an interest in phylogenetics, molecular systematics, biogeography, evolutionary biology of flowering plants, and botany.

APPLY HERE: <https://lu.varbi.com/en/what:job/jobID:693839/> (reference #PA2024/183). The position should also be listed at <https://www.lunduniversity.lu.se/vacancies>. For more information, please see the project description at <https://colinolito.com/opportunities/>, or send me an email.

Successful applicants will have a track-record demonstrating a passion for evolutionary biology, genetics, systematics, and/or botany. Suitable applicants must meet the general admission requirements for third-cycle courses and study programmes (i.e., the international equivalent of B.Sc., with honors research experience) in a discipline relevant to the PhD project. Applicants with additional relevant experience and/or a M.Sc degree are strongly encouraged to apply.

The Olito Lab is part of the Genetics of Sex Differences Research Group (<https://portal.research.lu.se/en/organisations/genetics-of-sex-differences>) within the dynamic and highly collegial Biology Department at Lund University. The SexGen research group is a welcoming and highly collaborative group of PI’s, post-docs, and students from the labs of Dr. Jessica Abbott, Dr. Bengt Hansson, and Dr. Colin Olito.

Colin Olito, Biology Department, Lund University
email: colin.olito at biol.lu.se Lab website: <https://colinolito.com/> Colin Olito <colin.olito@biol.lu.se>

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MichiganTechU PlantEvolution

PhD Student Opportunity to Join Dr. Erika Hersch-Green's Research Group in Plant Evolutionary Ecology at Michigan Technological University

I am looking for a graduate student that would like to contribute to research that is examining how plant genome size variation influences the structuring of biodiversity patterning from molecular levels to multispecies communities. Specifically, research will examine how genome size affects plant functional attributes, plant species interactions (with antagonists and mutualists) and responses to global change factors.

Position Details:

§With guidance from Dr. Hersch-Green, student will lead the development of their specific research questions and projects based upon their specific interests.

§Student will have opportunities to:

o conduct experiments in lab, greenhouse, and/or field settings (<https://youtu.be/H6MtEnAIyi0>),

o collaborate with national and international scientists (see: <https://nutnet.org/home>, <https://dragnetglobal.weebly.com/>),

o participate in outreach and scientific communication activities,

o work with a fun, supportive lab group to foster an equitable learning environment for everyone.

§The anticipated* start date Summer or Fall 2024.*

§*Funding *(including tuition) in the form of graduate research and teaching assistantships is included.

Qualifications:

§*Required:* (1) A MS in the fields of ecology or evolutionary biology or a closely related discipline. (2) Prior work experience in a field setting OR with molecular/transcriptome work. (3) Good (demonstrable) English scientific writing skills. (4) Ability to work well independently and as part of a team. (5) Commitment to promoting diversity, equity, and inclusion.

§*Desired:* (1) Good quantitative/statistics background. (2) Interest in community outreach. (3) A US driver's license upon starting.

*Qualified and interested candidates should email

Dr. Erika Hersch-Green (* [*eherschg@mtu.edu*](mailto:eherschg@mtu.edu) <eherschg@mtu.edu>*) to express interest.* In this email please include an updated CV and a statement of interest addressing required and desired qualifications and describing what area of research you are most interested in exploring and any previous experience in this area.

*Review of applications will** begin April 1, 2024, *at which time I will contact the most qualified candidates for virtual interviews. *Individuals from traditionally excluded groups in science and higher education are encouraged to apply*.

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

Erika Hersch-Green <eherschg@mtu.edu>

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MPIBI Seewiesen EvolutionCognition

Opportunity!

Projects available for Master's students and self-funded guest researchers in Comparative Cognition Research Station at Tenerife, Spain, run collaboratively between the Max-Planck Institute for Biological Intelligence and the Loro Parque Foundation

The Max-Planck Comparative Cognition Research Group (CCRG)

<https://www.bi.mpg.de/von-bayern> invites applications from Postgraduate/Undergraduate students and Interns who want to assist in research projects and bird care, enrichment and management. The CCRG is part of a collaboration between the Max-Planck Institute for Biological Intelligence, Germany, and Loro Parque Fundacion (LPF) in Tenerife, Spain. We are currently carrying out several projects on parrot intelligence. We work with mostly tame, captive parrots of LPF, which owns the largest collection of parrots and genetic reserve in the world (approximately 350 subspecies) for conservation and research purposes. Interested candidates are encouraged to contact us to request information about ongoing projects. Selected applicants will gain

experience in the field of cognitive research, as well as working with and training exotic parrots in a highly dynamic international research environment. A unique opportunity!

Preferable time of joining: It is highly preferable if students can join by April/May 2024

Logistics: The projects for Master's theses and guest researchers require a minimum of 4 months but ideally 6 months of continuous commitment at the research station in Tenerife, Spain.

Accommodation can be provided in a shared student apartment (Puerto de la Cruz, Tenerife, Spain), with affordable facilities. Students with their own funding or grants can apply for the posts.

Important skills/qualifications:

Selected candidates need to have:

- High motivation and commitment to the care of our birds - Preferably pursuing a Master's degree in Biology/ Psychology/Animal Science or related subjects. - Reliability, efficiency and ability to work independently
- Confidence to interact with animals - Good verbal English skills - Good teamwork attitude and social skills

Submit your request!

For more information on how to apply, please email Dr. Anastasia Krasheninnikova (akrasheninnikova@bi.mpg.de)

"Krasheninnikova, Anastasia"
<AKrasheninnikova@bi.mpg.de>

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NewMexicoStateU AlgalEvolution

The Corcoran Lab (corcoranalgaelab.com) is currently recruiting graduate students to start in August 2024 in the NMSU Biology Department. Funding is available to support Research Assistantships and costs of tuition. Research in the lab focuses on the structure and function of aquatic ecosystems, with an emphasis on microalgal biology and ecology. A strong focus is algal-bacterial interactions, including both beneficial and parasitic relationships. At present, there are very few algal-bacterial model systems. We seek to develop new model systems in a variety of platform algae to better understand these interactions at all levels: from molecular to population.

Day-to-day work in the lab can be conducted in the lab or field. The Corcoran Lab maintains over twenty 300L outdoor cultivation ponds at the nearby Fabian Garcia Science Center, offering a unique opportunity to ask cultivation-relevant questions. Exact research topics are flexible but should build on the group's resources and or previous work.

Earning a biology degree with a focus on algal biology, ecology, and biotechnology provides graduates with a diverse skill set and a broad understanding of microorganisms, ecological systems, and biotechnological applications. This skill set is relevant to addressing current challenges in health, the environment, and sustainability. Additionally, the emphasis on algal ecology offers opportunities to explore sustainability and the potential for sustainable practices, such as the development of algae-based biofuels. A graduate degree in the Corcoran Lab will equip you with comprehensive training in laboratory techniques, experimental design, data collection and analysis, manuscript preparation, and scientific communication, preparing graduates for their careers ahead.

The minimum qualifications for the position include: (1) a B.S. or M.S. in biology, marine science, microbiology, or related field (2) basic knowledge of algal or plant biology, molecular biology, and microbiology (3) a minimum GPA of 3.25 (4) laboratory experience (experience with algal and bacterial cultures is a plus) (5) the ability to work independently as well as with a diverse research group

For consideration, please email (1) a one-page cover letter describing your research interests and career goals, (2) your CV, (3) unofficial transcripts, and (4) contact information for three professional references (all compiled into a single PDF) to Dr. Corcoran atacor@nmsu.edu. If there is a good fit, applicants will be required to apply to the Graduate School (deadline: April 15, 2024). At this point, we are only considering applicants with work authorization in the US. For more information on the application process in the Biology Department, please see the department's webpage.

Alina Corcoran, Ph.D. Assistant Professor, Department of Biology New Mexico State University Foster Hall, RM 377 Office: (575) 646-3228; Cell: (207) 465-6116 corcoranalgaelab.com

Alina Corcoran <acor@nmsu.edu>

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NHM UOslo EvolutionaryBiology

For the following PhD (Jobbnorge ID: 257599), please apply at <https://www.jobbnorge.no/en/available-jobs/job/257599/phd-research-fellow-in-evolutionary-biology> The deadline for applications is 03.03.2024.

Natural History Museum PhD Research Fellow in Evolutionary Biology

Job description: Applications are invited for a position as PhD Research Fellow in Evolutionary Biology available at the Natural History Museum in Oslo (NHM).

The fellowship period is 4 years including 25% duty work that may consist of collection work, teaching, and/or supervision duties depending on the needs of NHM and the applicant's qualification.

Starting date as soon as possible.

More about the position: The PhD candidate will join the Sex and Evolution Research Group (SERG) at the Natural History Museum (NHM) in Oslo, and become a part of a dynamic research environment, collaborating with other PhD students, Master students, postdocs, and researchers.

SERG seeks new insights about the role of sex and sexual selection in evolutionary processes, at all levels of biological variation, from genes and genomes via gametes to morphology and behaviour, among individuals, populations and species of vertebrates. The evolution of multiple mating in passerines, and in particular the evolutionary benefits to females of such behaviour, is one of the main questions for scientists in the group. This PhD-project will be part of an ongoing research programme aiming to unravel the importance of MHC-based mate choice in passerine mating systems, hypothesising that multiple mating is a female strategy to correct for suboptimal social mate choice with respect to MHC compatibility. The project will consist of both in-depth investigations of MHC-based mate choice, and test plausible selection mechanisms, in an ecological model species, and comparative analyses across passerines species to test the generality of our findings as well as testing broad-scale hypotheses about MHC diversity in this highly diverse group of birds.

The PhD-candidate will work in the DNA lab, with wet lab procedures including DNA extraction, RNA- and amplicon sequencing. A major part of the work will

involve amplicon sequencing of both classes of MHC, on an extensive dataset from the bluethroat as well as datasets from a selection of other passerines, covering the phylogenetic range of the order. Another important part of the work will be the downstream bioinformatic pipeline to produce quality-controlled MHC genotypes for further analyses. All the samples needed for the project have already been collected, but there may be possibilities for additional field work.

Arild Johnsen will serve as the main supervisor, supported by 1-3 co-supervisors.

Qualification requirements: We seek a highly motivated, enthusiastic, hard-working and competent candidate with good collaborative skills. The candidate needs the following formal qualifications: - Master's degree (or equivalent) in Biology with a specialization or clear profile in evolutionary biology/molecular ecology. - Good communication skills (including written and spoken English) - Foreign completed degrees (M.Sc.-level) must correspond to a minimum of four years in the Norwegian educational system

The following skills are necessary, preferable or beneficial: - Experience with bioinformatic analyses of molecular data is necessary; experience with using the R programming language is preferable. - Knowledge of molecular wet lab procedures is preferable - Experience with phylogenetic comparative methods is preferable. - Field experience and experience with handling birds is beneficial

Grade requirements: The norm is as follows: - The average grade point for courses included in the Bachelor's degree must be C or better in the Norwegian educational system - The average grade point for courses included in the Master's degree must be B or better in the Norwegian educational system - The Master's thesis must have the grade B or better in the Norwegian educational system

English requirements for applicants from outside of EU/ EEA countries and exemptions from the requirements: <https://www.mn.uio.no/english/research/phd-regulations/regulations.html#toc8> The purpose of the fellowship is research training leading to the successful completion of a PhD degree.

The fellowship requires admission to the PhD programme at the Faculty of Mathematics and Natural Sciences. The application to the PhD programme must be submitted to the department no later than two months after taking up the position.

For more information see: <http://www.uio.no/english/research/phd/> Personal skills: We are looking for a highly motivated and creative candidate with



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>

Oslo Paleobiology Macroevolution

We are recruiting PhD and postdocs students at the Norwegian Centre of Excellence (Centre for Planetary Habitability <https://www.planetaryhabitability.org/>) One of the PhD positions is dedicated to time series analyses in evolutionary biology/paleobiology/geoscience.

The project description is here

“Much of the research in historical geosciences is concerned the plausible relationships between different (re-constructed) variables, such the atmospheric concentrations of different gases (e.g. oxygen, carbon dioxide), features of the surface of the earth (e.g. continental area, tectonic activities, snow and ice cover, biodiversity), and characteristics of the earth’s interior. These variables are variously estimated via proxies (e.g. isotopes) or using models with different types of input parameters, given a set of assumptions, usually based on modern measurements. While there is a lot of focus on both the generation of proxy data and the construction of earth history models, there is less focus on time-series analyses and especially causal inference, even though many of the questions posed in the recent literature concern unraveling causal relationships among time series. There is hence a need to use better time series tools and further develop time series tools for temporally patchy, highly uncertain data common in historical geology.

The Ph.D candidate, will carry out some or all of these research in collaboration :

Use a time series inference framework to quantify relationships between different abiotic (temperature, tectonics, atmospheric carbon dioxide) and/or (possibly) biotic time series (e.g. extinction rates, functional groups) across the Phanerozoic and beyond. Use a time series inference framework to ask if the underlying dynamic processes in different time intervals of earth history are different (e.g. comparing Snowball Earth periods) Quantify the relationship(s) between measured temporal proxies and model generated curves meant to reflect those measurements (e.g. a delta 018 curve and a modelled global temperature curve) Contribute to an updated

version of layeranalyzer (Reitan and Liow 2019) where the time series inference will be performed, including a R CRAN version, together with extended tutorials and vignettes. Depending on the skills and inclinations of the candidate, the candidate can be involved in model extensions to layeranalyzer. ”

Application details are posted at <https://www.jobbnorge.no/en/available-jobs/job/257601/phd-research-fellow-in-geosciences-earth-history> Deadline for application 29 Feb 2024.

Thank you Lee Hsiang Liow

Lee Hsiang Liow (Ph.D) Natural History Museum & Centre for Planetary Habitability University of Oslo, Norway leehsiangliow.com/ bryozoanlableed.wordpress.com/

Lee Hsiang Liow <l.h.liow@nhm.uio.no>

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Seattle Halibut EvoDevo

Graduate (MS) position: Development of an epigenetic clock for aging Pacific halibut (*Hippoglossus stenolepis*)

A 2-year MS level graduate student project is available in the Fall of 2024 or earlier for a student interested in the development of genome-wide DNA methylation-based methods for aging Pacific halibut as an alternative to current traditional aging methods. The MS student will be jointly supervised by faculty at Alaska Pacific University in Anchorage, AK, and biologists and quantitative scientists at the International Pacific Halibut Commission in Seattle, WA and the Alaska Fisheries Science Center in Juneau, AK, to develop and validate an epigenetic clock and high-throughput genomic methods for age estimation that will inform the Pacific halibut stock assessment. The specific objectives of this grant-funded project involve: 1) developing an age estimation method based on the generation of a high-resolution DNA methylation map for Pacific halibut tissue (fin clips) by drawing on the high-quality genome assembly (Jasonowicz et al., *Mol. Ecol. Res.* 2022; <https://doi.org/10.1111/1755-0998.13641>) and extensive transcriptomic data available for Pacific halibut; 2) developing predictive age models comparing age determinations by traditional (i.e. otolith annuli reading) and genome-wide DNA methylation-based methods; and, 3) developing error estimation methods and conducting

sensitivity analyses.

Ideal candidates will have a BSc in Fisheries, Marine Biology, Ecology or related field and programming experience in one or more modern scripting languages (e.g. R, Python, etc.). Knowledge of using Command Line Interfaces (CLI) such as Linux, Unix and or Bash shell is strongly desired. Experience in analyzing genomic data is preferred but not required.

To apply, please send 1) a cover letter summarizing research interests and experience, 2) a current CV containing a list of publications (if applicable), 3) a writing sample, and 4) the names and contact information for three professional references to Dr. Nathan Wolf at Alaska Pacific University, Anchorage, AK (nwolf@alaskapacific.edu). Review of candidates will begin immediately, but the position will remain open until a suitable candidate is found.

Josep Planas, Ph.D. Biological & Ecosystem Science Branch Manager 2320 West Commodore Way, Suite 300 Seattle, WA 98199 USA +1-206-552-7687 josep.planas@iphc.int www.iphc.int Josep.Planas@iphc.int

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Sorbonne Paris AntEvolution

PhD in evolutionary ecology of ants.

Maintenance of social and dispersal polymorphisms in the ant *Myrmecina graminicola*: phenotypic effects, mating preferences and spatially heterogeneous selection

Funded by the Agence Nationale de la Recherche (September 2024 to August 2027)

Institute of Ecology and Environmental Sciences of Paris, Sorbonne Université, 4 Place Jussieu, 75005 Paris, France <https://iees-paris.fr/en/> <https://iees-paris.fr/teams/social-species/> Supervised by Mathieu Molet mathieu.molet@sorbonne-universite.fr and Thibaud Monnin thibaud.monnin@cnrs.fr <https://iees-paris.fr/annuaire/molet-mathieu/> <https://sites.google.com/view/thibaudmonnin/research> Dispersal is essential for organisms to reach and colonise new sites, and dispersal strategies are of increasing scientific interest and ecological importance in a world where environmental changes are ubiquitous. Some ant species exhibit alternative dispersal strategies that involve

the co-occurrence of many morphological, behavioural, and physiological traits. This is the case of the ant *Myrmecina graminicola* where queens pursue either a dispersive strategy or a competitive strategy. Queens of the dispersive strategy are winged. They disperse by flight, found colonies solitarily, and are intolerant to additional queens. Queens of the competitive strategy are apterous. They disperse over a limited distance with workers, found colonies with their help, and often accept additional queens. These alternative strategies of dispersal and colony social organisation are determined by two supergenes with two alleles each. One supergene determines whether the queen is winged (genotype WW) or apterous (WA), and the other whether the colony has one queen (monogyny, queen of genotype MM) or several (polygyny, MP). Winged queens always form monogynous colonies (WW_MM), while apterous queens may form polygynous colonies (WA_MP) or remain monogynous (WA_MM).

The PhD project will build on recent studies of this species (Finand et al. 2023, 2024; Taupenot et al. in prep) using the newly acquired knowledge of supergenes determination of the dispersal strategy and social organisation. The PhD student will assess the link between the underlying genotypes and the mating choice of queens, their success at colony founding under natural conditions, their behavioural interactions, the dynamics of colony growth and sexual production, and overall colony fitness. Lab experiments will include the manipulation of the genetic background of colonies, common garden and cross fostering setups, as well as reintroductions in field-enclosures. Methods will include ethology, morphometry, and statistical analyses. Avenues of research will be discussed with the PhD student depending on her/his specific topics of interest.

The PhD student will be located at iEES Paris in central Paris, which provides a stimulating environment where she/he will have the opportunity to interact with other PhD students and postdocs as well as researchers on behavioural ecology, functional ecology, evolutionary ecology and theoretical ecology. The PhD project is part of a broader ANR research project on the genetic determination and relative successes of the two alternative strategies of *M. graminicola* (“Social organisation and dispersal: the dual role of a supergene in ants”). The direct research environment will feature another PhD, a postdoc and two geneticists (Claudie Doums, Stefano Mona) studying the structure and evolution of the supergenes and the population genetics of *M. graminicola* and located in a nearby institute (Institute of Systematic, Evolution and Biodiversity) at the MNHN, a theoretical ecologist (Nicolas Loeuille) located at iEES Paris, and an ethologist (Patrizia d’Ettorre) from Université

Sorbonne Paris Nord. The PhD student will participate in the monthly ANR meetings.

Applicants should have a Masters degree in ecology, with knowledge and skills in evolutionary ecology, and previous experience (internships or jobs) in experimental ecology. Skills in statistical analyses are also required. A good level in English is expected.

If you wish to apply, please send your CV, motivation letter, and recommendation letters to mathieu.molet@sorbonne-universite.fr and thibaud.monnin@cnr.fr. Deadline for applications is April 6th 2024.

References Finand B, Loeuille N, Bocquet C, Fédérici P, Ledamoisel J, Monnin T (2023). Habitat fragmentation through urbanization selects for low dispersal in an ant species. *Oikos*, e10325. <https://doi.org/10.1111/oik.10325> Finand B, Loeuille N, Bocquet C, Fédérici P, Monnin T (2024).

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Toulouse Malagasy Landscape Genetics

Ph.D. Position: Sustainability of the Functional Connectivity of Malagasy Landscapes for Terrestrial Fauna.

Target candidates: nationals of [<https://www.sshb.org/lmic/> | low- and lower-middle-income countries]

Application Deadline: Thursday, February 29, 2024. The applications will be evaluated upon reception. The deadline for submitting applications is February 29. However, the position will remain open until a qualified candidate is selected.

How to apply: Please send your cover letter and curriculum vitae to the contact address provided below. Additionally, you may include any other relevant documents such as your master's thesis, publications, awards, or grants.

Contact: jordi.salmona@ird.fr

General Information

Job Title: Ph.D. in landscape genetics of Malagasy fauna (M/F)

Location: Toulouse, Montpellier, France - Antananarivo, Madagascar

Publication Date: January 10, 2024

Grant Duration: 36 months

Ph.D. Start Date: September 1, 2024

Workload: Full-time

Monthly allowance: The monthly allowance, paid through Campus France, is euro 405 in Madagascar, and around euro 1690 for periods spent in France, to account for local costs. The doctoral candidate will also benefit from health and liability insurances.

Thesis Subject Description

The project aims to address the profound landscape changes observed in Madagascar since human arrival. These human driven changes, particularly in the use and transformation of forests, have significant implications for the island's biodiversity and the ecosystem services provided by its forests, such as fuelwood provisioning. The resultant forest fragmentation poses challenges to self-regeneration and adversely affects terrestrial and arboreal mammals, crucial for seed dispersal.

However, human practices are not the sole catalysts behind landscape changes and each region has a unique ecology, set of practices and conservation challenges. Some open habitats were naturally fragmented for millennia, while others were deforested more recently. For instance, the western dry ecosystems have experienced high recent deforestation rates, yet their fragmentation history beyond the past 70 years remains poorly understood. Understanding these spatiotemporal evolutions is crucial for establishing sustainable conservation practices in rural landscapes.

The objective of the PhD work is to assess the sustainability of Malagasy rural landscapes using a comparative landscape genetics approach. The study will leverage already available population genetics and genomic data from multiple complementary rural landscapes, of varying deforestation rates and management practices. This data will be analyzed to explore landscape dynamics and their impact on historical and contemporary functional connectivity. The project seeks to identify isolated populations and landscape components requiring reconnection, estimate the influence of human activities on ecological sustainability, and formulate recommendations considering conservation objectives, landscape use, and human needs. Ultimately, the findings will contribute to the establishment of robust conservation practices in Madagascar, promoting habitat connectivity and ecological sustainability while addressing the needs of local communities.

The project will be co-supervised by a multidisciplinary group of researchers facilitating the acquisition of specialized knowledge in landscape genetics and genomics (Jordi Salmons, IRD-CRBE and Lounés Chikhi, CNRS-CRBE and Instituto Gulbenkian de Ci ncia), in spatial analysis and remote sensing (Solofo Rakoton-draompiana, IOGA-Madagascar). In addition, the project integration to the IRD ILJ-Landscapes and the co-supervision by St phanie M. Carri re (IRD-UMR-SENS), will establish a strong connection with the activities of other sites studied by the ILJ, encompassing ecological and ethnoecological aspects and concerns related to landscape sustainability.

Work Context

The candidate will undergo a dual affiliation, spending six months annually at the Biodiversity and Environment Research Center (CRBE, UMR5300) situated on the University of Toulouse 3 Paul Sabatier campus in Toulouse. For the remaining six months, they will be based at the Centre National de Recherches sur l'Environnement (CNRE) and/or the Institut de g ophysique et observatoire d'Antananarivo (IOGA) in Antananarivo, Madagascar. Additionally, periods in Montpellier and Lisbon have been strategically planned to facilitate close collaboration with SC and LC, respectively. The candidate is expected to engage closely with fellow PhD and MSc students, fostering a collaborative research environment. Applications are particularly encouraged from Malagasy nationals, students of Malagasy Universities, and citizens from the South-Western Indian Ocean region, but all candidates from [

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TrentU Ontario Salamander Evolution

PhD project on gene expression and evolutionary dynamics in endangered small-mouthed salamanders

We are seeking a PhD candidate to extend long-term efforts to understand the ecology, genomics, and conservation status of endangered small-mouthed salamanders and reliant unisexual salamanders on Pelee Island, Ontario, Canada. The salamander complex on Pelee Island is currently at risk because of combined impacts of habitat loss and kleptoparasitism by unisexual salamanders

(see Bare et al. 2023. *Oecologia* 202: 807-818). Using our extensive dataset of thousands of genotyped salamanders, combined with ongoing field sampling and habitat suitability and connectivity analysis, the PhD candidate will explore one or more of the following: i) tools to increase genome-wide loci representation for higher resolution population genetics (RAD-seq); ii) amplification of corticosterone responsive genes as candidate genomic markers to evaluate transcriptomic stress; iii) genotype/environment interactions across isolated populations; and iv) interactions between inbreeding and drift, elevated unisexual ploidy, and environmental stress. The work may culminate by modeling salamander population viability under selection pressures in contemporary landscapes that favour unisexual polyploids over small-mouthed salamanders. The student's research can be further tailored according to interests and expertise, e.g., investigating stress responses via transcriptomics, profiling for novel candidate stress genes, or relating genetic variance to phenotype. The funding package includes a competitive stipend, international tuition fee waiver, as well as coverage of all professional expenses. Successful candidates must have an MSc in Biology, Genetics, or a related field, and demonstrable evidence of peer-reviewed publication. Candidates should have experience in more than one of the following areas: population genetics, RADseq analysis, transcriptomics, evolutionary ecology, population modeling and amphibian fieldwork. Successful candidates will have a strong work ethic and interest in working collaboratively in a large and diverse research group.

To apply, please send: i) cover letter highlighting relevant prior experience and interests corresponding to the above program priorities, ii) curriculum vitae, iii) unofficial academic transcript, and iv) contact information for 3 references. The successful candidate(s) will be co-supervised by Tom Hossie (www.thomashossie.ca) and Dennis Murray (www.dennismurray.ca) at Trent University and applications should be sent to thossie@trentu.ca and dennismurray@trentu.ca. The graduate positions will begin in May 2024 or September 2024, and the postings will be closed as soon as suitable candidates are found.

Dennis Murray

CRC in Integrative Wildlife Conservation, Bioinformatics, and Ecological Modeling Director, Bioenvironmental Monitoring and Assessment graduate program Trent University Peterborough, ON CANADA

www.dennismurray.ca dennis murray
<dennismurray@trentu.ca>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca)

Turku Finland HumanGenomics

I would be grateful if you could circulate this information related to fully-funded doctoral researcher positions in Finland to EvolDir and other relevant channels and/or to potential applicants. International applicants are sought for. The text can be found below. The positions numbers 18 and 19 specifically concern 18) Human genomic changes due to past epidemics and environment in north-eastern Europe and 19) Evolution of human health in past and modern environments. (Read more about the UTU-GreDiT research projects < <https://sites.utu.fi/utugredit/research-projects/> >)

The call is open until 5 February 2024.

Thank you and best regards, prof Päivi Onkamo, Univ. of Turku, Finland

“Solutions for Green and Digital Transition” (UTU-GreDiT), led by University of Turku (UTU), Finland, is a unique COFUND doctoral training project that aims to train the experts required to deliver transformative change towards sustainable societies, with skills and knowledge to operate across sectors. We are currently witnessing a major global ecological crisis challenging the living conditions on the Earth. Climate change and biodiversity losses have caused over euro 145 billion in economic losses in the EU over the past decade, in addition to inestimable human costs. The crisis increasingly threatens food, water and energy security in Europe and globally, resulting in serious socio-economic challenges. Transformative change is urgently needed. Interdisciplinary research and education in Green and Digital Transition provide a key means of addressing these complex crises by catalysing change towards sustainable socio-economic growth. UTU-GreDiT is co-funded by European Union’s Horizon Europe research and innovation programme’s Marie Skłodowska-Curie Action.

We are offering 25 fully-paid four-year doctoral researchers’ positions. UTU-GreDiT research groups include expertise from biodiversity research, biochemistry, biology, geography, geology, computer science, information and communication technology, management and organization, materials engineering, molecular plant biology, sustainable biotechnological processes. UTU-GreDiT integrates the well-established cutting-edge research infrastructures and experienced supervisors of UTU to UTU-GreDiT doctoral researchers. The UTU-GreDiT postgraduate studies include courses on the

research topic as well as studies on transferable skills, networking and mobility in the form of secondment(s) in partner organisations.

The call for applications for the UTU-GreDiT doctoral researchers’ positions will be open from 23 November 2023 to 22 January 2024. The four-year doctoral researcher positions are set to begin at the latest 1 August 2024. Read more about UTU-GreDiT < <https://sites.utu.fi/utugredit/> > Read more about the UTU-GreDiT research projects < <https://sites.utu.fi/utugredit/research-projects/> > An eligible applicant is an early-stage researcher (no doctoral degree), who holds a Master’s degree in relevant discipline. Based on the EU mobility rule, the applicant must not have resided in Finland for more than 12 months in last 36 months. Read more about these and other eligibility criteria. < <https://sites.utu.fi/utugredit/how-to-apply/> >

Päivi Onkamo <paivi.onkamo@utu.fi>

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UAuckland NewZealand ReproductiveDivisionOfLabour

Two fully-funded PhD positions in laboratory evolution and computational modelling at the University of Auckland, New Zealand

We are seeking applicants for two fully-funded PhD positions as part of an exciting research project in evolutionary biology in the School of Biological Sciences at the University of Auckland. The project is supported by a prestigious Marsden Fund grant from the Royal Society of New Zealand (Royal Society Te Apârangi) to Nobuto Takeuchi, Austen Ganley, and Timothy Cooper. One PhD position is in computational modelling, the other is in laboratory evolution. Each PhD position provides a stipend of NZD 33,825 per annum (tax exempt) for the full three-year PhD program (36 months) as well as full university fees (for both national and international candidates). The details are as follows (the same information with additional links is available at: <https://www.findaphd.com/phds/project/two-fully-funded-phd-positions-in-laboratory-evolution-and-computational-modelling-at-the-university-of-auckland-new-zealand/?p169240>)

The overall goal of the project is to understand what drives the evolution of reproductive divisions of labour

(RDL), where sterile 'helpers' assist specialised 'reproducers' in transmitting genetic information. RDL has evolved repeatedly and at vastly different biological scales. Examples include eusocial insects with queens and workers, multicellular organisms with germline and soma cells, ciliates with micronuclei and macronuclei, and cells with genomes and enzymes (enzymes provide catalysis, 'helping' genomes transmit genetic information). What drives the repeated evolution of RDL across different scales? Traditionally, it has been hypothesised that RDL increases group-level production efficiency because investment in a particular task brings accelerating returns - we call this the 'efficiency' hypothesis. However, our recent modelling work suggests that efficiency gains are not necessary for RDL to evolve [1]. Based on this work, we propose an alternative hypothesis: that RDL evolves because of its ability to inhibit the evolution of 'cheaters' - individuals that avoid cooperation and replicate uncontrollably. We call this the cheater hypothesis. While the traditional efficiency hypothesis relies on system-specific explanations for how RDL increases production efficiency, the new cheater hypothesis is simple: it predicts RDL is beneficial under any conditions where cheaters can prosper and is, thus, independent of idiosyncrasies in different systems because cheating is known to occur across many systems and biological scales.

The goal of the two PhD projects is to test both efficiency and cheater hypotheses using complementary computational modelling and laboratory evolution approaches. Specifically, the computational PhD student will use individual-based modelling to determine general conditions under which queen-worker RDL evolves to inhibit cheater evolution. The experimental PhD student will use laboratory evolution to test both the cheater and efficiency hypotheses by quantitatively assessing the effects of RDL on a synthetic yeast system engineered to have a germ-soma distinction.

The positions are open to candidates who have an MSc, BSc(Hons), or equivalent qualifying degree in a relevant discipline.

Your role: PhD position 1 (computational modelling): Your role will be to implement individual-based models using a fast programming language, such as C++ and Java, run the models using Linux clusters, and analyse data generated by the models using computational tools, such as R and Python, with the goal of determining the general conditions under which queen-worker RDL evolves. You will also collaborate with experimental team members to identify parameters relevant to their experiments. You will obtain world-class training in modelling, designing research, writing papers, presenting your research at scientific conferences, and collaborating

with team members. You will have ample opportunities to interact with multiple academics, including your main supervisor, Nobuto Takeuchi, and your co-supervisor, Austen Ganley, and other PhD students through regular meetings and retreats.

Post-graduate research experience in one of evolutionary theory, theoretical ecology, theoretical/mathematical/computational/systems/quantitative biology, theoretical population genetics, statistical physics, applied mathematics, and/or any relevant fields is necessary, but project-specific training will be provided. The ability to learn programming languages, a keen interest in quantitative and abstract thinking, and excellent academic communication skills are essential.

PhD position 2 (laboratory evolution): Your role will be to first use molecular genetic and synthetic biology

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UDebrecen Madagascar

Extreme conservation: reproductive strategies of Malagasy shorebirds

University of Debrecen (Hungary) - Debrecen Biodiversity Centre Prof Tamas Szekely (UK/Hungary) & Dr Sama Zefania (Madagascar) Applications accepted until 15 March 2024 - EU applicants only

About the Project Research Fields: Behavioral Biology, Biodiversity, Ecology, Evolution, Conservation

Do you want to build your career in wildlife conservation or behavioural ecology? Our project offers the extraordinary opportunity to conduct cutting-edge research in one of the world's most captivating and ecologically diverse locations: Madagascar.

Madagascar is one of the global biodiversity hotspots with an outstanding frequency of endemism. This diversity, however, is rapidly eroding before the fundamental aspects of natural history, behaviour and ecology have been explored. Our team is monitoring the behaviour, ecology, and reproduction of three species of Malagasy shorebirds: the Kittlitz's plover, white-fronted plover

and, black-banded plover. This studentship offers a field-work opportunity to study these shorebirds enabling us to better understand the factors driving their diverse reproductive behaviours and use this information to design conservation strategies. One of these species, the black-banded plover, is listed as Vulnerable by the IUCN, making your work critical and impactful.

The student will observe mate choice, pair-bonding, and parenting behaviours following a protocol recently developed by our team, which can be found at <https://elvonashorebirds.com/> S/he will have hands-on field experience in the Southwestern coasts of Madagascar, observing and studying shorebirds in their natural habitat. Additionally, investigate the ecological factors influencing reproduction. The student will also test whether reproductive behaviours can be predicted by population density and sex ratios through field observations and demographic data analysis. Previous work has revealed significant variations in reproductive behaviour; however, the underlying evolutionary drivers and the fine-scaled details of the associations between reproduction, ecology, and demography remain unclear. Understanding the outcome of reproductive decisions will, in turn, inform conservation efforts of these plovers and shed light on the critical stages of their reproduction.

The student will have access to data on behaviour, ecology and demography of plovers compiled by our team. Using theoretical frameworks, s/he will investigate reproduction from both ecological and demographic perspectives. The student will receive comprehensive training in behavioural ecology and demographic analyses and will apply evolutionary theory to advance biodiversity conservation. The PhD will be based at Debrecen Biodiversity Centre in Hungary. We have an extensive network of collaborators internationally and have a track record of helping PhD students in publishing in top research journals. We seek bright, motivated, and independent students from EU countries interested in biodiversity conservation. Interest in field biology, willingness to work in wild and remote study areas and driving licence are essential for this PhD position.

Debrecen is a liveable city in eastern Hungary with large international student community. Debrecen has good public services and rental housing and food are affordable. The Debrecen Biodiversity Centre - a recently created institute at the University of Debrecen that carries out cutting edge research and conservation focused on climate change, water management and biodiversity. Our research team works closely with Hortobagy National Park - a UNESCO Heritage Site just outside Debrecen.

The studentship will start in September 2024.

If you are interested in this PhD, please send i) a cover letter explaining your research interests and suitability for the position, ii) a copy of your CV with a list of scientific publications, and iii) contact information of two referees to T.Szekely@bath.ac.uk Please put in the subject line "DBK Madagascar PhD". Application deadline: 15 March 2024.

For further details, please see the supervisors/ websites: Prof Tamás Székely <https://www.szekelylab.com/> [https://en.wikipedia.org/wiki/Tam%C3%A1s_Sz%C3%A9kely_\(biologist\)](https://en.wikipedia.org/wiki/Tam%C3%A1s_Sz%C3%A9kely_(biologist)) <https://elvonashorebirds.com/group/core-team/tamas-szekely/> Dr Sama Zefania <https://www.researchgate.net/profile/Sama-Zefania> Funding Notes Promising candidates will be interviewed and the top candidate will be put forward for University of Debrecen scholarship. EU nationals will receive full tuition and a stipend that will be topped up to 1200 EUR

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UHamburg Germany EvolutionaryGeneticsImmunity

We invite applications for a PhD position to study the evolution, genetics and genomics of the adaptive immune system (especially MHC/HLA), using humans and/or fish as a model system. The specific topic is open and will be matched with the candidate's interests and skills. We use both computational and molecular approaches in our lab.

The position is a full-time PhD position funded for initially 3 years. In Germany, PhD students are expected to complete their PhD work within three years, as they don't have to collect course credits. However, extensions are possible depending on funding availability. A Masters degree in a relevant field is required to apply.

The application deadline is March 07

Please follow this link to apply online through the university system:

<https://www.uni-hamburg.de/en/-stellenangebote/ausschreibung.html?jobID=->

[1f99fb24f80a0b650adf076df6fad060bb0b1e41](https://doi.org/10.1101/1f99fb24f80a0b650adf076df6fad060bb0b1e41) In our group we are studying the genetic basis for variation in immunocompetence and disease susceptibility in vertebrates, with a particular focus on the adaptive immune system and specifically the process of antigen presentation (MHC/HLA) and recognition (TCR/T cell repertoires). Our main model systems are humans and three-spined sticklebacks (a small, but cool fish). We usually take an evolutionary perspective and aim to understand the factors and mechanisms that maintain genetic diversity in the context of host-pathogen coevolution (in both humans and fish), but we are also interested in the consequences of this diversity for the individual's health and have several ongoing collaborations with clinical groups on specific complex diseases in humans (e.g. HIV, Tuberculosis, autoimmunity, cancer). Several project ideas are available in this context and can be tailored to the candidate's interest and experience.

We expect the successful candidate to have a decent background in molecular and evolutionary biology. Some knowledge of immunology and bioinformatics would be a plus. For more specific requirements and duties, including a minor level of teaching, please see the advert link above. We offer an inspiring research environment with expertise in molecular, evolutionary, and computational biology, immunology and population genetics/genomics. Our group has state-of-the art molecular labs, including NGS sequencing capacity, and has priority access to the university's HPC cluster.

Our newly renovated labs and offices in the Institute for Animal Cell and Systems Biology at the University of Hamburg are situated in the middle of Hamburg, the second largest city in Germany. The institute is neighboring the main university campus with its bustling student life and cafes, and is easy to reach by bike or any public transport (and car, if you must).

Please see also our lab website for more info: <http://www.biologie.uni-hamburg.de/evolutionaryimmunogenomics> Please do not hesitate to contact me for informal inquiries, Tobias Lenz

Prof. Dr. Tobias Lenz, Heisenberg-Professor Research Unit for Evolutionary Immunogenomics University of Hamburg Department of Biology Institute of Animal Cell and Systems Biology Martin-Luther-King-Platz 3 20146 Hamburg, Germany

Email: tobias.lenz@uni-hamburg.de

<http://www.biologie.uni-hamburg.de/evolutionaryimmunogenomics> Tobias Lenz
<tobias.lenz@uni-hamburg.de>

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ing@mcmaster.ca)

UIIdaho Conservation Genomics Pygmy Rabbits

Two PhD Research Assistantships in Wildlife Ecology & Conservation at the University of Idaho

Project Description: Despite being considered narrow specialists in sagebrush habitats, pygmy rabbits exhibit substantial variability in habitat associations across their range. Projections of potential habitat under future climate models suggested a severe reduction in distribution of suitable habitat for the species in Idaho. However, the degree to which local adaptations and behavioral or physiological plasticity might influence persistence and distribution is unknown. This research will support a team of 3 PhD students working with multiple faculty with diverse expertise. The overall goal of the research is to explore adaptive capacity in response to climate change for a small-bodied mammal of conservation concern.

Specific PhD student project objectives include: Project 1) Apply genomic techniques to address questions about adaptive variation and examine physiological variation in thermal and energetic responses to the environment; Project 2) Develop and integrate physically-based surface energy and biological models of pygmy rabbit habitat and fitness under climate change; and Project 3) Model occupancy, behavior, and habitat selection to refine understanding of the current distribution, factors influencing distribution patterns, and potential future distribution under climate change (this PhD position is filled).

The Doctoral Research Assistantships include a 12-month stipend, tuition, and health insurance, and are funded for 3 years, with an additional 2 semesters of Teaching Assistantship support available.

Start date: Fall 2024 Location: University of Idaho, Moscow Campus. Remote work not possible. Application review will start 11 March 2024 and continue until filled.

Project 1: Required qualifications: - Scientific curiosity, a positive attitude, and strong work ethic. - A master's degree in Ecology, Biology, Wildlife Science, or a related discipline and evidence of academic productivity (e.g., publications, presentations at professional meetings, contributions to research teams). - Demonstrated

communication (writing and speaking) and quantitative skills. - Strong organizational skills and experience working in research teams. - Experience and/or training in genetics. - Experience in molecular techniques, genomics, and/or physiology is a plus, but not required.

Project Supervisors: Drs. Janet Rachlow, Lisette Waits, Paul Hohenlohe (hohenlohe@uidaho.edu) Application: Please email a brief cover letter, CV, transcripts (unofficial are fine), GRE scores (if available), and names and contact information for 3 references to Dr. Janet Rachlow at jrachlow@uidaho.edu.

Project 2: Required qualifications: - Interest in becoming a scientist who advances the understanding of integrated physical and biological processes by integrating observational data and numerical modeling. - Interest in developing practical solutions to wildlife management problems. - Experience, knowledge, and/or interest in the following areas: (1) writing R code to process data and model systems; (2) ecological challenges related to climate dynamics; (3) basic GIS skills to manipulate geospatial data; (4) theory and models of population dynamics and individual behavior, and (5) cultivation of collaborative professional relationships with researchers and managers. - Knowledge of GIS and/or stochastic dynamic programming is preferred but not required.

Project Supervisors: Drs. Matt Falcy (mfalcy@uidaho.edu) and Tim Link (tlink@uidaho.edu)

Application: Merge the bulleted items below into a single PDF and email to tlink@uidaho.edu and mfalcy@uidaho.edu by March 11, 2024 using the subject line Pygmy Rabbit Opportunity:

- Cover letter describing (i) qualifications (ii) a specific research question that you might be interested in pursuing within the general project described above, and (iii) a statement of work ethic/philosophy that you intend to implement in this position to achieve your longer-term goals. Do not exceed three pages.
- CV/resume that includes contact information for three professional references.
- Photocopy of GRE general test scores, if available.
- Unofficial or official transcripts of all coursework.

Paul Hohenlohe Professor, Biological Sciences Director, BCB Graduate Program University of Idaho <http://hohenlohelab.github.io> "Hohenlohe, Paul (hohenlohe@uidaho.edu)" <hohenlohe@uidaho.edu>

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ULiege ParentalEffects

Dear colleagues,

We are looking for a highly motivated candidate to apply for a PhD position to be performed in the laboratory of Dr. Bertanne Visser (Gembloux Agro-Bio Tech, University of Liège, Belgium) in collaboration with Dr. Cécile Le Lann and Prof. Joan van Baaren (University of Rennes, ECOBIO, France). Funding is available to pay a salary for 1 year, during which the candidate is expected to apply for grants to fund a 4-year PhD project (e.g., Fonds National de Recherche FRIA and ASP calls).

The Visser laboratory works on eco-evolutionary aspects of fat metabolism in parasitoids, particularly the amber wasp *Leptopilina heterotoma* (see <https://visserlab.be/>). Recent findings on amber wasps revealed that fat synthesis can be switched on or completely off depending on the developmental environment. When sufficient fat can be carried over from the host, most wasps will stop synthesizing fat, but when only low quantities of fat can be obtained from the host, wasps will start synthesizing fat. During the first year of the project, the PhD student will be integrated in the laboratory to train and get experience with the model system and be part of ongoing research and experiments.

Parasitoids are cornerstone species in ecological communities by regulating other insect populations. We are continuing to learn more about the intriguing fat physiology of parasitoids, but we have only little information as to how environmental changes in one generation impact future generations. Pr van Baaren and Dr Le Lann work on the effect of climate change on host-parasitoid interactions and in particular on plasticity and adaptation to temperatures. More erratic climatic conditions are becoming more prevalent and are expected to lead to indirect effects on host fat content, as well as direct effects on wasp fat metabolism (Le Lann et al., 2021). The candidate is expected to develop a research project on parental effects and transgenerational plasticity in response to reliable and unreliable variation in host fat content and temperature.

The ideal candidate for this position will have a strong background in ecology and evolution, as well as an interest in physiology. The candidate will be able to obtain skills in rearing and manipulating wasps and

Drosophila hosts, physiological measurements (determining fat content, stable isotope tracing and analyzing fatty acid profiles obtained with mass spectrometry), planning and designing experiments, as well as writing and presenting research findings.

We will continue to review applications until the position is filled. Ideally, the candidate will start no later than 1 July 2024. Applications should be sent to Bertanne Visser (bertanne.visser@uliege.be) and must include 1) a statement of interest detailing why you are interested in the topic and working in the host laboratory; 2) a full CV; 3) a list of grades obtained during the master's degree, and; 4) Contact details of at least 2 referees.

Best regards, Dr. Bertanne Visser, F.R.S.-FNRS Research Associate Evolution and Ecophysiology group <https://visserlab.be/> Scheifler Mathilde <Mathilde.Scheifler@uliege.be>

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ULille PolyploidySelfincompatibility

Dear all,

Xavier Vekemans and I have a funded Ph.D. position to study the evolution of self-incompatibility systems and self-fertilization in neopolyploid populations at the University of Lille - EEP laboratory (<https://eep.univ-lille.fr/>).

The topic will be both theoretical and empirical, but the student does not need to be specialized in both competencies.

Further details are available here (in French and English):

https://eep.univ-lille.fr/wp-content/uploads/2024/02/-Fiche_these_CLO_VEKEMANS_V1.pdf The application should contain a C.V., a motivation letter (1 page), the transcript marks from the master's degree, and the contact of one reference.

The deadlines are:

Deposit of applications: before the 29th of March (midnight). Interviews of selected candidates: the week of the 22nd of April (flexible).

The applications should be sent to me (at josselin.clo@gmail.com and/or josselin.clo@univ-lille.fr)

The expected starting date is 10/2024, but this is slightly

flexible.

Do not hesitate to contact me if you have any questions.

All the best

Dr. Josselin Clo Chargé de recherche CNRS Unité Evo-Eco-Paleo (EEP) - UMR 8198 CNRS / Université de Lille - Sciences et Technologies Bâtiment SN2 59655 Villeneuve d'Ascq - FRANCE

<https://sites.google.com/view/josselin-clo> CLO Josselin <josselincl@gmail.com>

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UMainz EvolPlantHerbivore

PhD Position available (50% E13 TV-L) University of Mainz, Institute of Organismic and Molecular Evolution Supervisor: Prof Dr Meret Huber (<https://plant-evolutionary-ecology.uni-mainz.de/>) Starting date: July 2024 or to be agreed upon

Real-Time Evolution of Plant-Herbivore Interactions

Background: One of the central paradigms in plant-herbivore interactions states that plants and their herbivores co-evolve. Yet, experimental evidence for this prediction is scarce. In this project, we aim to fill this knowledge gap by experimentally evolving duckweeds and one of its major native herbivores, the water lily aphid. By taking advantage of the rapid life cycles and the genetic and experimental manipulation possibilities in these species, we will observe and manipulate evolution in both interaction partners in real-time and thereby experimentally test a central hypothesis in plant-herbivore interactions. We look for an enthusiastic and ambitious PhD student with strong interest in plant-herbivore interactions and evolution. The applicant should have a solid background in ecology or evolution and have interest in combining genetic engineering, chemical analytics and experimental evolution. Experience in plant-environment interactions is advantageous. The applicant must be fluent in English and hold a MSc degree in Biology or related fields.

We offer a stimulating and interdisciplinary research environment including state-of-the-art facilities in a dynamic and international research group that ensures extensive supervision. The candidate can join the graduate school GenEvo ("Gene Regulation in Evolution") and fully benefit from its tailored programme. The

Institute of Organismic and Molecular Evolution is located at the University Campus of Mainz, close to the lively city center of Mainz. Mainz is situated in the picturesque Rhine valley, which can easily be explored through various cultural and outdoor activities.

How to apply: Please send a single pdf containing i) a motivation letter (max. 2 pages), ii) detailed CV, iii) copies of BSc and MSc degree, and iv) names and addresses of two referees to meret.huber@uni-mainz.de until 31.03.2024. The successful candidate may start in July 2024 or to be agreed upon.

For further information, please contact: Prof. Dr. Meret Huber Institute of Organismic and Molecular Evolution Johannes Gutenberg University Mainz Johann-Joachim-Becher-Weg 7 D - 55128 Mainz Phone: 0049 (0)6131 3930260 meret.huber@uni-mainz.de

“Huber, Prof. Meret” <mehuber@uni-mainz.de>

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UOslo AdaptationGenomicsSparrows

Hi all,

I am advertising for a PhD student to join my new group at the University of Oslo. Please see here for the full advertisement < <https://www.jobbnorge.no/en/available-jobs/job/257247/phd-research-fellow-in-evolutionary-ecology-genomics> >. Deadline 29th February 2024.

Human activity has shaped the evolution of a huge number of species and is a primary threat to biodiversity including through climate change. Some species have successfully adapted to anthropogenic niches and have rapidly expanded their ranges as a consequence. The house sparrow (*Passer domesticus*) is a prime example having evolved as a human-commensal. This species has also been repeatedly introduced to novel and often extreme environments across the world over the last 200 years. These repeated and independent introductions, often from similar source populations, provide a novel evolutionary experiment to investigate intraspecific local adaptation to temperature change over a recent timescale.

This multidisciplinary PhD project will incorporate ecology, genomics, ancient DNA and evolutionary biology to

investigate adaptation in the house sparrow. There will be opportunities for fieldwork, both within Norway and abroad. The successful candidate will be encouraged to develop their own research direction within the broader framework of the project and alongside international collaborators. Taking advantage of a spatial and temporal dataset of genomic and phenotypic data, the project will address three main questions;

1) what is the extent of parallel and non-parallel adaptation to temperature in both the native and invasive ranges? 2) how have temperature changes over the last century shaped thermal adaptation? 3) what are the evolutionary trade-offs and fitness consequences of adapting to extreme temperatures?

The position provides an exciting opportunity to join a friendly, diverse and very active research group with a focus on close mentorship, skills and career development. We conduct weekly lab meetings, group discussions and provide hands-on training for all group members. The group is situated with the Centre for Ecological and Evolutionary Synthesis (CEES) which is a vibrant interdisciplinary research cluster with an active and welcoming research culture.

Very happy to hear from interested candidates!

Mark

Mark Ravinet Associate Professor Department of Biosciences University of Oslo mark.ravinet@ibv.uio.no

Mark Ravinet <mark.ravinet@ibv.uio.no>

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UOttawa ConservationGenomicsPlants

PhD: Genomics to support conservation translocations in plants

The Lee-Yaw lab at the University of Ottawa is looking for a PhD student who is enthusiastic about conservation genomics and plants. This is a fully funded position that is co-supervised with Dr. Jenny McCune from the University of Lethbridge.

Our goal is to establish new populations of rare and at-risk plants at the edge of their range in Ontario, Canada to support their recovery. As part of these efforts, we are using genomic data to understand the extent to

which range-edge populations are genetically distinct and assess levels of genetic diversity among potential source populations.

Apart from these questions, the student will have an opportunity to develop a thesis more generally exploring rarity, landscape genomics, genetic constraints on range limits, or other questions in ecology or conservation biology.

Eligibility:

The successful applicant will ideally have an MSc involving molecular lab work. Previous experience working with plant DNA and genomic data is preferred. Molecular work and PhD program requirements are to be completed at the University of Ottawa. However, the student has the option to spend time in the McCune lab at the University of Lethbridge in Alberta. Fieldwork in southern Ontario is optional during the first summer but data collection will take place in the lab. This position is open to both domestic and international students, however priority will be given to Canadian citizens or residents. Black and Indigenous students, People of Colour, and members of the LGBTQ2+ are encouraged to apply. The University of Ottawa is a bilingual French-English institution and bilingual students are very welcome.

Stipend support

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

To apply:

Send an email to jleeyaw <at>uottawa.ca. Include:

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

We will review applications as they are received and until the position is filled.

Start date

Ideally: September 2024.

Julie A. Lee-Yaw (she/her/elle) Professeure adjointe |

Assistant Professor Faculté des sciences, département de biologie | Faculty of Sciences, Biology Department Université d'Ottawa | University of Ottawa 30 Marie Curie, Ottawa, ON, K1N 9B4 Pavillon Gendron 376 | Gendron Hall 376

(613) 562-5800 ext: 6357 leeyawlab.ca

Julie Lee-Yaw <jleeyaw@uottawa.ca>

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UPadua ClimateChangeMitigationInBivalves

PhD OPPORTUNITY: The laboratory of genetics and ecophysiology in marine animals (<https://www.facebook.com/Gemma.BCA/>) located at the Department of Comparative Biomedicine - University of Padua (Italy) - is offering one PhD position to work in the context of mitigation strategies to counteract the impacts of climate change in bivalve molluscs.

Research Topic Title: Understanding consequences and testing mitigation strategies in marine species subject to climate change and pollution.

Description of Research Topic: Pollution and anthropogenic CO2 emissions are triggering alterations on ecosystems. In summer 2019, a heatwave affected ~95% of the Mediterranean basin and in particular the North Adriatic Sea, an area already compromised by chemical pollution where several aquaculture facilities are held. According to this multiple stressors scenario, filter-feeding and sedentary organisms like bivalves are (and will be in the near future) subjected to severe pressures impacting population stocks, resulting in biodiversity loss and socio-economic impacts on aquaculture. In this context, the case of the Manila clam *Ruditapes philippinarum* is emblematic: in recent years this species experienced several mortality events with a consequent dramatic decrease of stock availability due to the persistence of harsh stressful environmental conditions. The PhD project will aim to provide novel strategies to ameliorate Manila clam performance under multiple stressful conditions, using innovative tools such as priming and microbiota manipulation, with the final aim to explore biodiversity conservation and sustainable aquaculture management strategies. In addition, effects of several emerging contaminants will be assessed in bivalve species (e.g. clams, mussels, oysters) through multidisciplinary

approaches that will be then elaborated within a weight of evidence approach able to summarize different data into a hazard index. Overall, the PhD project will provide new data on actions/interactions of biological processes involved in responsiveness and adaptation to environmental changes.

Working environment: The research fellow will join the research group at the Department of Comparative Biomedicine and Food Science at the University of Padova (BCA) and the marine station in Chioggia. The BCA Department has been awarded as Department of Excellence in aquatic animal research, offering a privileged environment to researchers with an excellent community in Marine Science in one of the best (and oldest) universities in Italy. The team is committed to maintaining a respectful, inclusive, and friendly working environment, as well as promoting career development. Padua is a vibrant city and a major cultural and economic centre in north-eastern Italy.

Application procedure: Interested candidates should submit a single pdf with a motivation letter, a short description of current and past research projects and their CV to <massimo.milan@unipd.it>. Recommendation letters are appreciated but not crucial at this stage.

Contact person: Massimo Milan (massimo.milan@unipd.it)

Luca Peruzza <luca.peruzza@unipd.it>

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UppsalaU EvolutionLichenPhotobionts

PhD student position in evolutionary genomics, with specific focus on biology and evolution of lichen photobionts is now available at Uppsala University, Sweden

Fully funded for 4 years. Start date: Spring or summer/autumn2024. Deadline to apply: March 18.

Please find all the details and instructions on how to apply at: <https://www.jobb.uu.se/details/?positionId=700350> The Department of Ecology and Genetics (IEG) is an international environment with staff and students from all over the world. Our research spans from evolutionary ecology and genetics to ecosystem studies. Learn more at www.ieg.uu.se . A PhD student position in evolutionary genomics, with specific focus on biology and

evolution of lichen photobionts is now available within the Evolutionary Biology Program at IEG.

Project description

Lichens, symbiotic organisms composed of fungi, photobionts (algal partners), and bacteria, play crucial roles, particularly in cold environments, contributing significantly to biogeochemical cycles and trophic interactions. Recent scientific evidence suggests that lichen photobionts play decisive roles in lichen adaptation to different environments, yet the mechanisms behind this are poorly understood. Furthermore, the absence of comprehensive genomic data on lichen photobionts has resulted in limited understanding of their biology and evolution, ranging from species diversity and distribution ranges to genome characteristics and adaptive abilities.

This project aims to address significant gaps in lichen biology and evolution. Specifically, the doctoral student will investigate the genetic diversity, phylogenetic relationships, and genomic features of lichen photobionts. Additionally, the student will study the population structure, distribution ranges, and dispersal mechanisms of the most common lichen photobionts the green algal species from the genus *Trebouxia*. This research will establish a solid foundation for future lichen studies and has the potential to yield groundbreaking insights into the biology and evolution of one of the most important yet poorly understood lichen symbiotic partners the lichen photobionts.

Throughout the doctoral program, the student will learn and employ a combination of bioinformatic methods, molecular lab work, culturing techniques, and experimental studies of photobionts, alongside microscopy techniques. The student will integrate methods from phylogenomics, comparative genomics, and population genetics to analyze the data.

Ioana Onut Brännström's research encompasses various aspects of lichen evolution, from studying the phylogeography and mating system of lichenized fungi to exploring the impact of natural and anthropogenic factors on lichen photobionts.

Duties The selected candidate will be responsible for performing molecular laboratory work, including DNA/RNA extraction, quantitative PCR, library preparation, and sequencing using short and long read sequencing technologies. Additionally, the PhD-student will be tasked with growing and maintaining *Trebouxia* axenic cultures, conducting experimental evolution studies on cultures, analyzing different types of 'omics' data, and utilizing microscopy techniques to describe the morphological characteristics of identified *Trebouxia* species.

We anticipate the candidate to actively participate in

the everyday activities of the research group and at the Program/Department.

Qualifications required To meet the entry requirements for doctoral studies, you must hold a Master's (second-cycle) degree in Evolutionary Biology, Systematic Biology, Population Genomics, or a related field have completed at least 240 credits in higher education with at least 60 credits at Master's level including an independent project worth at least 15 credits, or have acquired substantially equivalent knowledge in some other way.

The applicant should master the main concepts in evolutionary biology and/or systematics. Proficiency in, or a keen interest to learn, molecular lab work, cultivation and maintenance of algal cultures, and bioinformatic analyses is essential.

We attach great importance to personal qualities, such as a passion for discovery, initiative, creative thinking and stress-resilience. The ideal candidate should have a genuine interest for scientific research, thrive in a collaborative environment, and demonstrate initiative and responsibility in managing their own tasks and projects. We are seeking someone who can maintain motivation and efficiency even in the face of setbacks. The candidate must be able to express themselves very well in spoken as well as written English.

Qualifications desired Additional skills, such as wet lab techniques, basic knowledge in Linux and other computer languages.

For further information about the position, please contact

Researcher, Group Leader, Ioana Onut Bränntröm,

— / —

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>

UppsalaU WolverineMicrobiomes

PhD position in molecular ecology to study wolverine microbiomes at Uppsala University, Sweden. Fully funded for 4 years. Start date: Spring or summer 2024. Deadline to apply: March 11.

Please find all the details and instructions on how to apply at: <https://www.jobbb.uu.se/details/?positionId=700349&languageId=1> The Department of Ecology and

Genetics is an international environment with staff and students from all over the world. Our research spans from evolutionary ecology and genetics to ecosystem studies.

We are now looking for a PhD student in Molecular Ecology to the program Animal Ecology. The candidate will join the research group of Dr. Elin Videvall.

In the Animal Ecology program, we study the ecological causes and evolutionary consequences of variation among and within animal species. Our workplace constitutes a large and international academic research and training environment. We strive to nurture stimulating discussions and interactions in English, which is our working language. We interact closely with other programs at the Department of Ecology and Genetics, and we have a broad international network of research collaborations with colleagues and organizations from different countries.

Project description Animals carry a multitude of microorganisms that collectively constitute their microbiome. These microbes are incredibly important for a host as they provide essential nutrients, train the immune system, and communicate with the host's nervous system. This doctoral project aims to contribute to a better understanding of the microbiome's role in wild animals, with a special focus on the Scandinavian wolverine, a key predator and scavenger in the Swedish fauna. The PhD student will analyze both the wolverine's diet (prey animals) and gut microbiome in detail using modern DNA sequencing in the form of metabarcoding. The plan is to evaluate whether the diet can predict the composition and diversity of the microbiome, describe the variation observed within the species, and investigate how individuals living in zoos differ from their wild counterparts.

Duties Research and studies within the subject area, with a focus on the microbiomes of wild animals. A significant portion of the research will involve analyses of DNA metabarcoding data (both diet and microbiome) and associations between these datasets. The student will also need to establish communications with zoological parks and retrieve their samples. Tasks include writing scientific manuscripts and presenting the results at international conferences. Active participation in the research group's activities, including training of master students and involvement in various collaborative research projects, are other important aspects of the responsibilities of the PhD student.

Qualifications required To meet the entry requirements for doctoral studies, you must * hold a Master's (second-cycle) degree in ecology, evolutionary biology, bioinformatics, microbiology, genetics, or another relevant field,

or * have completed at least 240 credits in higher education with at least 60 credits at Master's level including an independent project worth at least 15 credits, or * have acquired substantially equivalent knowledge in some other way.

The candidate needs to be highly motivated with an interest in molecular ecology. We attach great importance to personal qualities such as an ability to work independently and organized, while also being able to work collaboratively within the research group and engage in different projects. Candidates must be able to express themselves very well in spoken as well as written English. Swedish skills are not necessary.

Qualifications desired Experience in the programming language R, bioinformatics, and other genetic analyses are valuable, but not a requirement for this position. An interest in conservation genetics and a desire to learn more about animal microbiomes are highly recommended.

For questions about this position, contact Dr. Elin Videvall: elin.videvall@ebc.uu.se.

Please submit your application by 11 March 2024. <https://www.jobb.uu.se/details/?positionId=700349&languageId=1> Elin Videvall <elin.videvall@gmail.com>

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USouthernMississippi MarineEDNA

Graduate position advertisement below and attached

The Phillips Lab in the School of Biological, Environmental, and Earth Sciences (BEES) at the University of Southern Mississippi (Carnegie R1) is recruiting a PhD student in Biology to develop and use environmental DNA (eDNA) tools to study the status and ecology of highly threatened 'rhino rays', including sawfish, wedgefish, and giant guitarfish. The successful candidate will join a diverse lab group and work as part of an international research team dedicated to shark and ray conservation. The successful candidate is expected to take initiative in developing and completing the scope and direction of their dissertation under the guidance of their PI and committee.

Required Qualifications: BSc in Biology or a related field Highly self-motivated Capacity to work indepen-

dently Strong written and oral communication skills Interest in eDNA science Detail-oriented

Preferred Qualifications: MS in Biology or related field Previous experience with DNA extractions or PCR Peer-reviewed publication(s)

A stipend will be provided via Teaching (initially) and/or Research Assistantships and include a full tuition waiver. Students are also encouraged to apply for additional scholarships that are available, to be discussed on a case-by-case basis.

Interested candidates should email a cover letter/expression of interest and CV that includes contact information for three references to: N.Phillips@usm.edu. Review of materials will begin immediately. Candidates will also need to formally apply to the USM Graduate program by February 15 2024 for Fall 2024 admittance (preferred) or October 15 for a Spring 2025 start.

Helpful links: Graduate admissions process: <https://www.usm.edu/graduate-admissions/index.php#apply> .Admission requirements (School of BEES): https://catalog.usm.edu/preview_program.php?catoid=33&poid=16664 Info about the Phillips Lab: <https://www.usm.edu/faculty-directory/profile.php?id=1937119> Nicole Phillips, Ph.D.

Associate Professor

The University of Southern Mississippi School of Biological, Environmental, and Earth Sciences

118 College Drive #5018 Hattiesburg, MS 39406-0001 N.Phillips@usm.edu 601-266-4756

Nicole Phillips <N.Phillips@usm.edu>

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UTours Two SocialInsectEvolution

Two PhD positions in social insect biology at the University of Tours, France

We offer two fully-funded PhD positions at the Insect Biology Research Institute (UMR7261, CNRS, University of Tours, France) to study 1/ the social and molecular control of queen specialization in ants and 2/ the impact of thermal stress on ant colony foundation. All details on the positions and the application process can be found on our group webpage (<https://www.univ-tours.fr/m-romain-libbrecht-2>). The starting date of

both positions is October 1st 2024 and the deadline to apply is March 24th 2024. Feel free to contact Romain Libbrecht (romain.libbrecht@univ-tours.fr) for further information.

Romain Libbrecht <romain.libbrecht@gmail.com>

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UZurich ExperimentalEvolution

PhD position in behavioural ecology using experimental evolution at the University of Zurich

We offer a fully-funded PhD position at the Department of Evolutionary Biology and Environmental Studies of the University of Zurich (Switzerland) to study the evolutionary consequences of social interactions in the sexually dimorphic fruit fly *Drosophila prolongata*.

Details on the position here: <https://jobs.uzh.ch/offene-stellen/phd-position-in-behavioural-ecology-using-experimental-evolution/c043fb64-b30b-41e9-ba26-d2b28310829a> Apply here: <https://ohws.prospective.ch/public/v1/application/c043fb64-b30b-41e9-ba26-d2b28310829a?lang=en> Contact tom.ratz@uzh.ch for more info.

Applications Deadline: Friday 15th March 2024

Tom Ratz <tom.ratz@uzh.ch>

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Vienna PopulationGenetics

Over the past years, Vienna has developed into one of the leading centres of population genetics. The Vienna Graduate School of Population Genetics has been founded to provide a training opportunity for PhD students to build on this excellent on-site expertise.

We invite applications from highly motivated and outstanding students with a love for evolutionary research and a background in one of the following disciplines: evolutionary genetics, functional genetics, theoretical or experimental population genetics, bioinformatics, math-

ematics, statistics.

Topics include:

- Adaptation from reduced genetic variation. - Adaptation to complex environments. - Inference of selection signatures from time-series data. - Long-term dynamics of local *Drosophila* populations. - Making sense of whole-genome polymorphism data - The role of deleterious mutations for adaptation and maintenance of variation. - Unraveling the impact of gene flow during species divergence.

Only complete applications (application form, CV, motivation letter, university certificates, indication of the two preferred topics in a single pdf) received by April 1st will be considered. Two letters of recommendation need to be sent directly by the referees.

PhD students will receive a monthly salary based on currently euro 2.464,80 before tax according to the regulations of the Austrian Science Fund (FWF).

All information about the about available topics, the training program and the application procedure can be found at www.popgen-vienna.at Dr. Julia Hosp

Vienna Graduate School of Population Genetics Coordinator

www.popgen-vienna.at <https://twitter.com/PopGenViennaPhD> c/o Institut für Mathematik, Universität Wien & Institut für Populationsgenetik, Veterinärmedizinische Universität Wien

T +43 1 25077 4302

Julia Hosp <Julia.Hosp@vetmeduni.ac.at>

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WageningenU AntibioticResistanceEvolution

PhD position: Modelling the evolution of antibiotic resistance evolution in spatially structured environments

Laboratory of Genetics, Wageningen University, the Netherlands

Job description

Antibiotic-resistant bacterial infections pose a growing global health problem. To understand and potentially predict the evolutionary trajectories towards antibiotic resistance, we need to know which resistant mutants can

thrive. Currently, most knowledge of bacterial fitness effects of resistance mutations comes from laboratory experiments in mixed liquid cultures, whereas in reality bacteria typically live in spatially structured environments, such as biofilms. The fitness of resistant mutants then depends on local conditions, which vary, among others, due to changes in local drug concentrations caused by nearby bacteria that degrade or export the drug.

A fully funded PhD position (four years when full-time employed) is available in our group for a theoretical biologist to work as part of an interdisciplinary project studying how spatial environmental structure affects the evolution of antibiotic resistance (supervised by dr. Hilje Doekes and prof. Arjan de Visser; full project proposal available upon request). You will develop spatially explicit models of bacterial growth, competition, and evolution under antibiotic pressure. Throughout the project, you will collaborate closely with a postdoc who will perform competition and evolution experiments in the lab. You will integrate experimental results in your models and produce model predictions that can be tested in the lab.

Your duties and responsibilities will include: * developing and analysing mathematical and computational models; * engaging in model-experiment feedback; * communicating your results by delivering talks at (inter)national conferences and writing scientific manuscripts; * participating in undergraduate teaching and/or co-supervising thesis projects of BSc- and MSc-students.

Qualifications

We are looking for someone with a fascination for microbial evolution and a quantitative mindset. Close interaction between modelling and experiments is key to this project. The ideal candidate therefore has excellent communication skills and will enjoy the interdisciplinary collaboration.

We also ask that you possess: * an MSc degree in computational biology, evolutionary biology, applied mathematics, or another relevant field; * some experience with computer programming; * affinity with the development of mathematical and/or individual-based models and their application to experimental results; * good command of the English language (both spoken and written).

A PhD is a learning trajectory. If you do not yet have a track-record showing all the requirements but do have a strong motivation to acquire the skills necessary to make this project a success, we would like to encourage you to apply.

Offer

You will receive a fully funded PhD position and you will be offered a course program tailored to your needs and the research team. The gross salary for the first year is euro 2.770 - per month rising to euro 3.539,- in the fourth year. This is based on a full-time working week of 38 hours. We offer a temporary contract for 18 months which will be extended for the duration of the project if you perform well. Employee benefits include * a fixed holiday bonus of 8% and December bonus of 8.3%; * working hours that can be discussed and arranged so that they allow for the best possible work-life balance; * the option to accrue additional holiday hours by working more, up to 40 hours per week; * reduced fees for the use of on-campus sports facilities; * partially paid parental leave; * excellent pension scheme.

More info

If you have questions about this position, please contact Hilje Doekes: hilje.doekes@wur.nl.

For more info or to apply: <https://www.wur.nl/en/vacancy/phd-position-modelling-the-evolution-of-antibiotic-resistance-in-spatially-structured-environments.htm> “Doekes, Hilje” <hilje.doekes@wur.nl>

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Würzburg Germany MothAdaptationToLight

The Chair of Behavioral Physiology and Sociobiology at Julius-Maximilians-Universität Würzburg (JMU), Germany, is inviting applications for a

Researcher Position (PhD position)

The impact of natural and artificial light at night on the flight behavior of moths

A DFG-funded PhD position is available in the group of Dr. Jacqueline Degen (Biocenter). The contract will start on June 1st, 2024, and will be fixed term for a period of three years. The position is part time (65%).

Description

The invention of electric light massively changed the light environment that nocturnal insects are adapted to. Recording of flight trajectories over several hundred meters using harmonic radar revealed that orientation of moths is significantly affected by streetlights, although

only a small fraction of individuals finally flies towards the light source.

Using field and laboratory experiments, the present project particularly aims at understanding the circumstances eliciting attraction towards a light source. A major focus is dedicated to unveiling the interplay between streetlight height and intensity on attraction (field experiment in Berlin), the impact of streetlights in pristine landscapes (field experiment in the Rhön Dark Sky Reserve) and weighting of natural and artificial light cues in a conflicting situation (lab experiment with an LED arena). The expected findings will not only be relevant for a deeper understanding of insect orientation but will also provide a basis for understanding why moths fly towards the light.

What we offer:

A three-year PhD positionAn exciting and excellent research environment at the BiocenterTravel opportunities for training, research and meetingsThe possibility to associate with the Graduate School of Life Sciences (GSLS) at the JMU, which offers structured interdisciplinary training for participating PhD students Qualifications:

A Master's degree or equivalent in biology, ecology or a related disciplineA solid background in animal behavior Fieldwork experienceExcellent communication and team-working skillsA driver's license to perform fieldworkGood statistical skills in R would be desirable, but are not required Your application should include:

A motivation letter, including scientific interest and details of past research experienceA detailed curriculum vitaePhotocopies of exam resultsA publication list - if anyContact information of two referees

The JMU aims to reduce the underrepresentation of women and therefore explicitly encourages qualified women to apply. Severely handicapped applicants will be given preferential consideration in the case of broadly equal suitability, ability and professional achievements Please note: We will not be able to reimburse you for your application and travel expenses.

Please send your convincing application and supporting documents, preferably as a single PDF file, to jacqueline.degen@uni-wuerzburg.de. For further information, please send an email. Universität Würzburg, Biozentrum, Zoologie II, Am Hubland, 97074 Würzburg, Germany The closing date for applications is March 15th, 2024.

Please do not send any original documents to us; only send photocopies. As we need to save costs, we will not be able to return your documents to you. They will be shredded shortly after a hiring decision has been made. If you enclose a postage-paid return envelope, we will return your application documents to you three months after a hiring decision has been made.

Dr. Jacqueline Degen

Junior research group leader

Behavioral Physiology and Sociobiology (Zoology II)
University of Würzburg, Biocenter Am Hubland 97074
Würzburg Germany

+49 931 31-89017

Jacqueline Degen <jacqueline.degen@uni-wuerzburg.de>

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Jobs

Advert WITHDRAWN	51	IndianaU LabTech PheromoneEvolution	57
Alberta SixFieldTechs GrizzlyBearDiversity	51	IowaStateU ChairEvolutionDept	57
ArizonaStateU InvertebratesNEON	52	KansasStateU TeachingEvolution	58
BIOPOLIS-CIBIO Portugal EvolutionaryGenomics	52	MichiganStateU ConservationGenomics	59
California FieldResAssist PlantEvolution	53	NOAA Seattle FishClimateAdaptation	59
CarnegieMellonU Bioinformatics	54	NTNU Norway EvolutionaryGenomics	60
Denver MNS MammalsCurator	54	OhioU EvolutionaryBiology	60
Houston LabTech EvolutionaryGenetics	56	PennsylvaniaStateU EvolutionaryBiology	61
ILIM UIBK Austria TechAssist	56	Philadelphia Technologist TimetreeDatabase	61

Senckenberg Frankfurt Bioinformatician	62	ULorraine EvolutionaryBiology	68
TexasAMU BiodiversityConservation	63	UManchester TeachingEvolution	69
TexasAMU Two Professor ForestResources Biodiversity		UMissouri StLouis PlantDiversity	70
64		UNewOrleans EndowedChairInBiodiversity	71
TreeOfLife Sanger Bioinformaticians	64	USheffield ResearchTech AnimalColourationAI	71
UCalifornia Berkeley LabTech PoisonFrogDrosophila	65	VanderbiltU DataScience Bioinformatics	72
UCalifornia LosAngeles VertebrateEvolution	66	VirginiaTech InvasiveSpecies	72
UConnecticut RecentGraduatesResearchOpportunity		WilliamMaryU Virginia TeachingEvolution	73
67			
UKarlstad AquaticLifeEvolution	67		

Advert WITHDRAWN

This advert has been `_WITHDRAWN_` from the EvoDir.

To be politically and ideologically appropriate is not any sort of criteria that should applied in the hiring of a scientist.

Brian

—

...

Department of Entomology, College of Plant Protection, China Agricultural University

Application Deadline: 26 Feb 2024 (GMT+8).

POSITIONS:

... Entomology (insect genomics, evolutionary toxicology, and insect ecology), twelve-month, ...

JOB QUALIFICATIONS:

1. Age under 45 years old, born on or after January 1, 1979.

2. Possesses a high level of political and ideological qualities, collaborative spirit in scientific research, a dedication to the job, a strong sense of responsibility, competence in work, and a commitment to ethics and education.

...

Alberta SixFieldTechs GrizzlyBearDiversity

fRI Research (Alberta, Canada) Grizzly Bear & Habitat field technicians

Job Opportunity: 4 grizzly bear & 2 habitat technicians with the Grizzly Bear Monitoring Project Link: <https://friresearch.ca/news/employment-opportunity-gbmp-habitat-and-field-crew> fRI Research is hiring 4 grizzly bear and 2 habitat seasonal field technicians. The successful candidates will be part of a team monitoring grizzly bear populations through non-invasive sampling approaches and evaluating bear food availability on the landscape in relation to climate and management practices.

Grizzly bear technicians will collect grizzly bear hair samples using non-invasive collection methods and monitor sampling sites with the use of trail cameras.

Habitat technicians will deploy soil temperature and humidity sensors and monitor vegetation plots to assess species presence, abundance, and phenology.

Work involves driving 4-wheel drive trucks on gravel roads, reading maps and GPS locations, using radios and other communication devices, hiking through dense vegetation and uneven terrain, setting up hair sampling sites/monitoring vegetation plots, and accurately collecting ecological data.

Fieldwork will be staged out of various locations in the foothills between Highway 16 south to Highway 1 in Alberta. There is scope for crossover, with habitat/grizzly bear technicians exchanging tasks as required by project needs.

Candidates must hold a valid Class 5 driver's licence with a clean driving record for a minimum of 3 years;

be physically fit and able to hike long distances with a heavy backpack and equipment in difficult terrain and adverse conditions; hold a valid First Aid/CPR certificate; be eligible to work in Canada / currently in possession of an open work permit (note US citizens require a work permit for work in Canada).

Candidates must to be available from April 29, 2024 to August 31, 2024, but there is scope for longer contracts (earlier start/later end) depending on work and candidate availability.

Wage will be \$22-26/hr depending on experience, on a shift work schedule of 9 days on/5 days off, with 75-88 hours per shift. Accommodation and food provided during remote fieldwork.

Training will be provided in Hinton, Alberta.

View full job ad for further details and application instructions:

<https://firesearch.ca/news/employment-opportunity-gbmp-habitat-and-field-crew> For other seasonal field technician positions currently available at fRI Research, see:

<https://firesearch.ca/news/employment-opportunity-caribou-program-summer-field-technician-and-crew-lead> Darío Fernández-Bellon he/him Program Lead Grizzly Bear Monitoring Project

fRI Research | 1176 Switzer Drive, Hinton, Alberta, T7V 1V3 www.fRIResearch.ca | dfernandezbellon@firesearch.ca Phone: (780) 817-4580

“dfernandezbellon@firesearch.ca”
<dfernandezbellon@firesearch.ca>

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from 81 sites across the United States. We facilitate this with a data portal to support discovery and tracking of sample occurrences and sample data linkages, sample transactions, and research use. The invertebrate collections manager will play a critical role in providing and refining these services to benefit the greater NEON research community.

The position is integrated with the Biodiversity Knowledge Integration Center (BioKIC), which provides inclusive and equitable access to knowledge services related to biodiversity collections and data. We support ASU’s Charter and Mission (<https://www.asu.edu/about/charter-mission>) through what we value, what we do, and who we are. BioKIC is committed to providing a healthy work environment and work-life balance. The position is located in Tempe, Arizona.

For more information and to submit an application:

1. Go to <https://cfo.asu.edu/applicant> 2. Select “Staff opportunities for Non-ASU job seekers - Apply here” 3. Search for “NEON” or “98641BR”

or go directly to <https://sjobs.brassring.com/TGnewUI/Search/home/HomeWithPreLoad?partnerid=25620&siteid=5494&PageType=JobDetails&jobid=4884968> Prior inquiries to nico.franz@asu.edu are encouraged.

Nico M. Franz, Ph.D. (he/him) Virginia M. Ullman Professor of Ecology Director of Biocollections School of Life Sciences, Arizona State University E-mail: nico.franz@asu.edu

Nico Franz <nico.franz@asu.edu>

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ArizonaStateU InvertebratesNEON

NEON Biorepository Invertebrate Collections Manager Arizona State University (ASU) School of Life Sciences is seeking an Invertebrate Collections Manager (ASU position title: Research Specialist Sr.) for the National Ecological Observatory Network (NEON) Biorepository (<https://biorepo.neonscience.org/>). Fully initiated in 2019, NEON is expected to run for 30 years. For each project year, the NEON Biorepository at ASU receives, processes, stores, and makes available for research an average of 80,000-100,000 samples collected by NEON

BIOPOLIS-CIBIO Portugal EvolutionaryGenomics

RESEARCHER POSITION ON EVOLUTIONARY GENOMICS AT CIBIO-INBIO, BIOPOLIS, PORTUGAL Application deadline: 22 February 2024 . MAIN RESEARCH FIELD: Evolutionary Genomics Reference: BIOPOLIS 2023-81 Job posting and application at [<https://www.cibio.pt/biopolis-2023-81-2/>] JOB DESCRIPTION: BIOPOLIS/CIBIO ([<https://cibio.up.pt/en/>] , [<https://www.biopolis.pt/en/>]) is seeking a highly motivated Researcher in the area of Evolutionary Genomics, under a non-fixed

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

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

TENDER ADMISSION REQUIREMENTS: Application can be submitted by any national, foreign, and stateless candidate(s) holding a doctorate/PhD degree in Biology and related areas, and a scientific and professional background that aligns with the specific activities described below (item 7). In case the doctorate degree was awarded by a foreign higher education institution, it must comply with the provisions of Decree-Law no. 66/2018 of 16 October, and all formalities established therein must be complied with at the signature of work contract. Specific requirements are: (i) experience in research in evolutionary genetics and genomics; (ii) Experience in using computational tools to analyse high throughput DNA sequencing data; (iii) experience in

publishing papers in indexed international peer-reviewed scientific journals; (iv) experience in evolutionary and ecological modelling simulation frameworks is valued.

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

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

SALARY: Monthly remuneration to be paid is that set by subheading a) nr.1 article 15 of RJEC and article nr 2 of the Regulatory Decree nr. 11-A/2017, corresponding to level 33 of the Tabela Remuneratória Única, approved by Order no. 1553-C/2008 of December 31st, i.e., 2228.11 Euros.

HOW TO APPLY: [<https://www.cibio.pt/biopolis-2023-81-2/>] (where instructions and selection procedures are detailed). The call for applications is open until 22 February 2024. Expected starting date: 1st April 2024

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

José Melo-Ferreira <jmeloferreira@cibio.up.pt>

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California FieldResAssist PlantEvolution

Hello all,

The Moeller Lab at the University of Minnesota Twin Cities is seeking a field research assistant for the Summer of 2024. Our work involves the evolution and ecology of native California plants.

Position overview: The successful applicant will assist with a number of exciting ongoing projects involving annual flowers in the genus *Clarkia*. The work will take place in the Eldorado National Forest in the Sierra Nevada mountains of California.

Qualifications: Some undergraduate education in ecology, botany, or a related field. Enthusiasm for working outdoors for extended periods of time in variable weather

conditions.

Timeline: June 17 - July 31, 2024 (with some flexibility)

Compensation: \$15/hour, plus airfare and lodging.

The full job posting and instructions to apply are available at the following link: <https://drive.google.com/file/d/1PGe6ALV2MGqldafc-AxUy7EnuIb0lZ/-view?usp=sharing> Aidan Harrington | he/him/his PhD Candidate | Moeller Lab Plant and Microbial Biology University of Minnesota

Aidan Harrington <harr3281@umn.edu>

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CarnegieMellonU Bioinformatics

Echinobase is hiring. Applications will be accepted until we fill the position so apply immediately.

Application Instructions Applications, including a cover letter, curriculum vitae indicating your interest should be submitted electronically via Interfolio at <https://apply.interfolio.com/140269>. Veronica Hinman is a PI on a newly renewed NIH grant that funds an international team to develop Echinobase (Echinobase.org), a community resource for echinoderm genomic research. The Department of Biological Sciences at Carnegie Mellon University is seeking candidates for a full-time Senior Bioinformatician to improve the contiguity and accuracy of echinoderm genome assemblies, enhance the annotation of gene models through orthology mapping, improve Gene Ontology and integration with external sources and process bulk RNA-seq data for subsequent use in viewing phenotypes and relative expression across multiple species. Opportunities for independent projects are available depending on interest and experience. Opportunities to teach and mentor students are also available depending on the candidate's interests and experience.

Responsibilities will include: - Continued integration (full or partial) of community-provided assemblies. - Improving the assembly and annotations for existing genomes (e.g. *Patiria miniata*). - Enhance the functional annotation of genomic elements and datasets. - Automated merging of multiple genome annotations. - Addressing many:1 homology relationships by considering orthogroups. - Whole-proteome ontology analyses of supported species (e.g. PFAM, InterPro). - Coordination of external resource integration (e.g. UniProt, AGR,

PhylomeDB). - Deployment of SRA / GEO pipeline for gene expression visualization. - Compute ???Expression Phenotypes??? to be provided to Curate for the ECAO. - Process and prepare single-cell data for visualization across multiple species. - Implement UCSC cell browser to browse single-cell datasets.

Flexibility, excellence, and passion are vital qualities within MCS. Inclusion, collaboration, and cultural sensitivity are valued competencies at CMU. Therefore, we are in search of a team member who is able to effectively and professionally interact with a varied population of internal and external partners. We are looking for someone who shares our values and who will support the mission of the university through their work.

Qualifications - PhD degree in computational biology, bioinformatics, evolutionary or developmental biology or related fields is required. - An interest in echinoderm genomics. - Ability to summarize and communicate technical information in a clear, concise manner to multiple audiences. - Ability to publish computational and biological results in peer-reviewed journals. - Ability to work with an international team on the development of tools. - Compensation will be commensurate with experience.

The Mellon College of Science (MCS) is home to four departments and many programs and research centers that cross disciplines. We approach scientific problems from fresh angles using creative interdisciplinary approaches while drawing on our departmental strengths in the core sciences. MCS faculty members are nationally and internationally recognized for their research in various fields, including molecular and cellular biology and genomics.

Cheryl Telmer <ctelmer@gmail.com>

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Denver MNS MammalsCurator

The Denver Museum of Nature & Science (DMNS) invites applications for the position of Assistant or Associate Curator of Mammals. The successful candidate will have an innovative field- and specimen-based research program that contributes to understanding the evolutionary biology of mammals in areas such as phylogenomics, conservation, phylogeography, climate change, systematics, eco-evolutionary interactions, and behavior.

ior. Enhancing the Museum's collections through field collections is essential. In addition, ideal candidates will have experience in informal education, outreach, and community engagement. We seek a collegial individual, especially from groups traditionally underrepresented in science, who will help the Department of Zoology and Health Sciences grow its scientific and public impact, as well as its collections as appropriate.

The DMNS mammal collection consists of approximately 22,000 specimens spanning 1870 to the present, is world-wide in coverage, and has more than doubled in size in the last two decades. The collection continues to grow through focused collecting and acquisition of specimens from a variety of partners. Specimen records are databased in Arctos and also accessible through the major portals (e.g., GBIF, iDigBio, GGBN, etc.). The collection's primary strength is its focus on the southern Rocky Mountains and Great Plains, including an emphasis along the Front Range of Colorado. High-quality specimen data, frozen tissues, and parasites are associated with most of the specimens archived since 2006, very much exemplifying the "extended specimen" concept.

The mammal collection is housed in the modern Avenir Collection Center which opened in 2014. The collection is also supported by a fully staffed vertebrate preparation lab and genetics lab, as well as other facilities.

Job Class: Full-Time Assistant Curator Hiring Range: \$58,000 - \$68,000/annually Associate Curator Hiring Range: \$68,000 - \$78,000/annually Close Date: 02/26/2024

Curator definitions:

Assistant Curator: At the Assistant level, curators must engage in original research, but need not necessarily include new methods, synthetic approaches, or questions of broad scope. Similarly, research impact may be limited to a narrowly defined field. For curators with minimal collections responsibilities, or lacking such responsibilities altogether, considerably more weight will be given to research products (e.g., publications and grants) or outreach products. Hiring range: \$58,000 - \$68,000/annually

Associate Curator: At the Associate level, curators will engage in original research, with a portion of this work being collaborative and addressing problems of at least moderate scope and complexity. Research impact should exceed that of the Assistant Curator level, influencing a more broadly defined field at least nationally, with publications more frequently including synthetic works in high profile venues. For curators with minimal collections responsibilities, or lacking such responsibilities

altogether, considerably more weight will be given to research products (e.g., publications and grants) or outreach products. Hiring range: \$68,000 - \$78,000/annually

Essential duties:

§ Works with the Zoology and Health Sciences team and other DMNS staff to conduct research, curate collections, and provide outreach in support of the evolving needs and mission of the museum.

§ Elevates the impact of the Zoology and Health Sciences Department within and beyond the museum.

§ Stewards and grows collections as appropriate.

§ Grows new non-scholarly relationships and networks in support of departmental and museum goals.

§ Works collaboratively with a wide range of DMNS departments, including in fields outside of their scholarly expertise, to ignite community passion for science and nature.

§ Collaborates with community scientists, interns, and volunteers to produce scholarship, improve collections, and/or conduct outreach.

Minimum qualifications/requirements:

§ Ph.D. in biological sciences or related field.

§ 4 years' experience with lab equipment.

What we are looking for:

§ Scholarly productivity, with substantial peer-reviewed publications already published.

§ Field- and collections-based research program in mammalogy.

§ Postdoctoral or other related postgraduate experience.

§ Experience utilizing and/or curating a mammal research collection.

§ Expertise in mammalogy complementary to those of existing Zoology curators.

§ Experience in obtaining permits for fieldwork.

§ Record of extramural grant acquisition and/or private fundraising skills.

§ Public speaking ability, including experience with, or interest in, developing skills in a wide range of science communication styles and media.

§ Desire to participate in diversity, equity, access and inclusion initiatives.

§ Candidates traditionally underrepresented in science.

§ Spanish or other language fluency.

Application Instructions:



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Houston LabTech Evolutionary Genetics

Laboratory Technician Position in the Department of Biology & Biochemistry at the University of Houston

A laboratory technician position is available in the Department of Biology and Biochemistry, University of Houston, TX, USA in the laboratory of Dr. Richard Meisel, PhD. The Meisel lab uses genetic and genomic approaches to study evolutionary processes in a diversity of fly models. The laboratory technician will maintain fly strains; perform experiments with flies; carry out molecular biology experiments; oversee laboratory supplies and purchasing; and train lab members in laboratory protocols. Interested applicants should email Richard Meisel (rpmeisel@uh.edu) a resume; cover letter describing experience and goals; and contact information for at least one references. Applications will be reviewed as they are received and continue until the position is filled.

The policy of the University of Houston System and its universities is to ensure equal opportunity in all its educational programs and activities, and all terms and conditions of employment without regard to age, race, color, disability, religion, national origin, ethnicity, military status, genetic information, sex (including gender and pregnancy), sexual orientation, gender identity or status, or gender expression, except where such a distinction is required by law.

Richard Meisel (he/him/his) Associate Professor Department of Biology and Biochemistry University of Houston

3455 Cullen Blvd Houston, TX 77204-5001

Office: 453F SR2 Lab: 428/433 SR2

rpmeisel@uh.edu bchs.uh.edu/~rpmeisel 1-713-743-3607

rpmeisel@Central.UH.EDU

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ILIM UIBK Austria TechAssist

Job Vacancy Technical assistant in research 40 hours/week, permanent position

Your tasks: - Planning and independent execution of and help with research work/experiments in the laboratory - Operation, administration and maintenance of the central flow cytometer (AttuneNxt) - Instruction and training of laboratory staff and students (e.g., operation of the flow cytometer) - Cultivation of aquatic organisms (e.g., water fleas, rotifers, algae) - Independent development, adaptation and establishment of new research methods and techniques (DNA extractions, library preps and other molecular methods) - Participation in field work

Your qualification: - Completed relevant Bachelor's degree or equivalent training (e.g., BTA/MTA/CTA/BMA or specialized secondary school diploma with advanced knowledge) - Ability to carry out complex work processes independently and on your own responsibility (e.g., establishing and developing new methods) - Good written and spoken English skills - High level of communication skills - Ability to work in a team and flexibility

What we offer: - Position in employment group IIIb - Minimum gross salary: euro 2,959.00/month (14x), higher salary in case of relevant professional experience possible - Additional benefits: <https://www.uibk.ac.at/en/career-portal/additional-benefits/> Details can be found at www.uibk.ac.at/karriere, reference number BIO-14045, and https://lfuonline.uibk.ac.at/public-karriereportal.details?asg_id_in=14045 If you have any questions, please contact Markus.Moest@uibk.ac.at

We look forward to receiving your online application by 16.02.2024.

“Möst, Markus Hartmann” <Markus.Moest@uibk.ac.at>

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IndianaU LabTech PheromoneEvolution

Position summary: The Darragh Lab at Indiana University, Bloomington is recruiting a Research Technician. The lab focuses on understanding the evolution of insect pheromone biosynthesis. The job involves laboratory support tasks such as preparing stock solutions, providing general lab support, and ordering supplies. The role will also require carrying out experiments involving protein expression and enzyme assays.

Basic qualifications: A Bachelor's degree in Biology or similar is required at the time of appointment. The ideal candidates would have previous research experience in evolutionary biology, biochemistry, or molecular biology. The candidate must be able to follow lab protocols and keep accurate written records. The candidate is expected to work independently with good organizational and decision-making skills. They will also be required to work as part of a team where excellent communication skills are required.

Flexibility for full-time or part-time

For full-time: Salary commensurate with years of experience will start at \$38,000. To apply, please submit a letter of interest, your CV and contact information for three references electronically to <https://indiana.peopleadmin.com/postings/22945>. The best consideration date is 4/1/24 with a negotiable projected start date of 5/1/24. Inquiries about the position can be directed to Kathy Darragh at kdarrag@iu.edu.

For part-time: \$13.00 - \$16.00 per hour depending on experience. Apply here: <https://shorturl.at/hnuDN>
Indiana University is an equal employment and affirmative action employer and a provider of ADA services. All qualified applicants will receive consideration for employment based on individual qualifications. Indiana University prohibits discrimination based on age, ethnicity, color, race, religion, sex, sexual orientation, gender identity or expression, genetic information, marital status, national origin, disability status or protected veteran status. The department of Biology is a large, unified department with strong undergraduate degrees, nationally-ranked graduate programs, and world-class research spanning the breadth of biological questions and experimental systems from ecosystems to microbiology and developmental biology, from evolution to cell biology, from molecular biology to systems biology,

bioinformatics, and genomics. It is always an exciting time for Biology enormous advances in global genome analysis coupled with unprecedented developments in interdisciplinary research have made the 21st century the Century of Biology. For more information about the department, you can find it here: About:Department of Biology:Indiana University Bloomington < <https://biology.indiana.edu/about/index.html> >. The College of Arts and Sciences is committed to building and supporting a diverse, inclusive, and equitable community of students and scholars.

“Darragh, Kathy” <kdarrag@iu.edu>

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IowaStateU ChairEvolutionDept

EEOB Chair search

Full consideration date is 26 February 2024

POSITION DESCRIPTION:

The College of Agriculture and Life Sciences (CALS) and College of Liberal Arts and Sciences (LAS) at Iowa State University in Ames, Iowa seek a Professor and Chair for the Department of Ecology, Evolution, and Organismal Biology (EEOB). Applications are sought for a visionary leader with demonstrated capacity to lead this department in its mission areas of teaching, research, extension, and outreach/service. The ideal leader of this department will advance and promote a culture of excellence and accomplishment, access and service. The Department of EEOB teaching portfolio includes shared undergraduate degrees in Biology, Genetics, and Environmental Science, and shared graduate programs in Bioinformatics and Computational Biology, Ecology and Evolutionary Biology, Environmental Science, Genetics and Genomics, Interdisciplinary Graduate Studies, Plant Biology, and Sustainable Agriculture. The EEOB department incorporates state-of-the-art laboratories, greenhouses, experimental farms and landscapes, and access to campus-wide facilities that support their academic and research missions. Integration and collaboration are core values for the faculty that enhance the working environment.

JOB APPLICATION SITE:

<https://isu.wd1.myworkdayjobs.com/EN-US/IowaStateJobs/details/Department->

Chair_R13577?jobFamilyGroup=-ad349100dff401ea127be90a060a22e3

SPECIFIC RESPONSIBILITIES OF THE POSITION INCLUDE:

- Provide visionary leadership for the department to serve the needs of diverse faculty, staff, students, stakeholders and citizens to fulfill the land-grant missions of the department, colleges and university;
- Serve the department and the college in accomplishing their missions, and be a collaborative member of the leadership teams of both colleges across all missions and academic departments;
- Communicate effectively the mission, vision and strengths of the department and colleges within Iowa State University, and to external stakeholders and collaborators in the public and private sectors;
- Encourage and foster interdisciplinary collaboration with other departments, centers, and institutes within and external to the university;
- Ensure sound fiscal and budgetary management to achieve the mission of the department and comply with college and university-level policies and practices related to fiscal responsibility and management;
- Foster an environment of collegiality in which all faculty and staff work to realize the department's purposes and are held accountable for their performance;
- Keep faculty and staff informed about policies and expectations that may affect them;
- Stimulate and facilitate excellence and professional development in all aspects of teaching, research, extension/outreach and service;
- Maintain availability to faculty, students, staff, and stakeholders, and participate in representational activities on behalf of the department and colleges, including after-hours and travel as necessary;
- Recruit and retain the best possible people in all department positions, and develop and promote an outlook and activities that enable local-to-global engagement, innovation and entrepreneurship, and sustainability;
- Recruit, retain and enable the success of a broad student body of undergraduate and graduate students who are prepared to excel in the departmental program areas, cross-disciplinary thinking, and innovation and leadership;
- Assist faculty, staff and graduate students to attain resources through extramural funding by encouraging a culture of collaboration and innovation, team science, and investigator excellence;
- Nurture and maintain effective relationships with ex-

ternal stakeholders, including leaders and members of Iowa's various organizations supporting the program areas in the department and the college, and the general public;

- Nurture, maintain, and create excellent alumni relations, internal and external communications, marketing and recruitment, and partner and donor relations. Enable departmental management and support for capital projects, fundraising and endowments to support all missions.

REQUIRED MINIMUM QUALIFICATIONS:

- Ph.D. or equivalent in any of the areas of expertise in the department or a closely aligned field
- Scholarly activities that qualify for tenure in EEOB and the rank of Professor

PREFERRED QUALIFICATIONS

Evidence of demonstrated leadership in:

- Research experience relevant to the EEOB department mission;
- Organizational budget/fiscal management (e.g., of an academic department, college, or university-level unit);
- Personnel management, including recruitment, advancement, and retention of faculty and staff;

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KansasStateU TeachingEvolution

The Division of Biology at Kansas State University is currently seeking a full-time Instructor (title may vary based on degree and credentials) to teach undergraduate classes beginning August 2024. The successful applicant will be responsible for solo or co-delivery of 5-6 classes per academic year in the areas of, but not limited to, evolutionary biology, organismal biology, and introductory biology using state-of-the-art technology and active learning principles. Organismal biology courses taught by the Instructor may focus on taxon-specific disciplines (e.g., ichthyology, mammalogy).

This position is for the nine-month academic year; opportunities exist for additional course delivery in the

summer semester. Instructional responsibilities include classroom, laboratory, and online instruction, laboratory setup, preparation and maintenance of syllabi and other class materials, evaluation of student competence, assessment of student mastery of Division of Biology and university learning objectives, and preparation of student progress and grade reports. Other responsibilities will include academic advising, participation in campus events such as open houses, student award ceremonies, and graduation ceremonies. Opportunities for mentoring undergraduate research projects may also be available.

For more information on the position and to apply please visit the site below. <https://careers.k-state.edu/en-us/job/516769/instructor> Questions about the position can be directed to Tom Platt (tgplatt@ksu.edu).

Tom Platt <tgplatt@ksu.edu>

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MichiganStateU ConservationGenomics

The Department of Fisheries and Wildlife at Michigan State University invites applications for a full-time, 12-month tenure track Assistant Professor in Conservation Genomics and Molecular Ecology with 75% research, 15% teaching, 5% outreach, and 5% service assignment. The position will primarily focus on questions related to the management of fishes and fisheries in close partnership with the Michigan Department of Natural Resources.

The position start date is anticipated to be fall 2024. APPLICATION REVIEW WILL BEGIN ON MARCH 8, 2024.

The successful candidate will join a dynamic faculty, postdoctoral and student community in departmental and campus-wide programs with expertise in applications of genomic methods in natural resources management, ecology, and evolutionary biology, with a focus on natural resources management. The Department seeks individuals trained in areas including but not limited to spatial genetic structuring and recruitment dynamics of fish and wildlife populations, population analysis using genetic information, statistical genetics, and genomic data analysis. Other skills and research responsibilities could include next-generation sequencing,

transcriptomics, eDNA monitoring, diet metabarcoding, aquatic invasive species control, understanding stressor effects on fish populations using genetic data, bioinformatic analyses, and use of genetics data in improving hatchery fish performance will be considered. Any area of expertise that has the potential to significantly advance natural resources management and the sound stewardship of natural resources in Michigan, across the Great Lakes region, and nationally will be considered. This individual will teach graduate-level Conservation Genetics and a graduate or undergraduate course yet to be determined.

Please find the full position description and instructions for applying here: <https://careers.msu.edu/en-us/job/517614/assistant-professortenure-system> Please direct questions to the search committee chair, Dr. Michael Wagner, at mwagner@msu.edu.

C. Michael Wagner Associate Professor Applied Behavioral Ecology Lab (ABEL) Department of Fisheries and Wildlife Michigan State University wagnerlabmsu.com <<http://www.wagnerlabmsu.com/>> @ABELlabMSU

“Wagner, Michael” <mwagner@msu.edu>

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NOAA Seattle FishClimateAdaptation

NOAA Fisheries is excited to announce we are recruiting for a “RESEARCH BIOLOGIST”. The positions will help support NOAA Fisheries’ mission activities and will assist our efforts to increase the resiliency of our nation’s marine resources against climate change impacts. More information on open positions, including these positions, are available for specific locations and positions here <<https://www.fisheries.noaa.gov/national/careers-more/noaa-fisheries-hiring-positions-available-support-inflation-reduction-act>> . *These positions open for applications on 1 February and will close once 200 applications are received.*

Below is a link to the announcement and some helpful information.

<https://www.usajobs.gov/job/773227200> *Kim M. Parsons, Ph.D. *(she/her)

Molecular Genetics Lead *Conservation Biology Division* Northwest Fisheries Science Center NOAA, Na-

tional Marine Fisheries Service 2725 Montlake Blvd E
Seattle, WA 98112

office phone 206 302 2428 kim.parsons@noaa.gov

Looking for a time to meet? Look here < <https://calendar.app.google/21MuXNS6gB5gf2Xq5> > for open spots in my calendar!

<https://scholar.google.com/citations> <https://www.fisheries.noaa.gov/contact/kim-parsons-phd>

I sometimes work irregular hours, but I respect your work schedule and do not expect an action or reply outside of your working hours.

“Kim Parsons - NOAA Federal (she/her)”
<kim.parsons@noaa.gov>

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NTNU Norway Evolutionary Genomics

The Department of Natural History, NTNU University Museum has a vacancy for an associate professor in the evolutionary genomics of vertebrates.

Do you want to be part of an ambitious research environment at Norway’s largest university? The NTNU University Museum is seeking an associate professor for a position in vertebrate evolutionary genomics. The appointment is permanent and is part of our aim to recruit ambitious and excellent researchers. The position is central to the Department of Natural History’s strategy: Through the utilization of genetic information captured in natural history collections, we want to improve our understanding of evolutionary change and processes affecting biodiversity. Thus, we are looking for someone with experience and keen interests to conduct cutting-edge, collections-based research that advances fundamental knowledge about biological diversification in time and space.

You have a demonstrable interest in evolutionary biology and work in the fields of evolutionary genomics or a closely related academic discipline. Preferably, you have experience with the integration of vertebrate host and microbiome datasets in testing evolutionary and/or ecological hypotheses, as well as experience with curation of natural history collections and the use of scientific collections in genomic research. While working to develop an independent research program, you

may benefit from the initial support of members of the Holomuseomics research group, whose overarching goal is to develop and utilize novel genomic methods, including paleo-genomic sequencing and metagenomics, to understand past and present biodiversity. These research activities are centered around natural history collections and often employ interdisciplinary approaches. You may also benefit from interactions with several other research groups [<https://www.ntnu.edu/museum/-research-groups>] at the Department of Natural History.

As a start-up we offer a paid PhD position. Female applicants are especially encouraged and will have special opportunities to apply to the NTNU start-up program for women in permanent scientific positions. We offer an ambitious and positive working environment and good work-life balance in one of Norway’s most beautiful cities. The NTNU University Museum, Department of Natural History employs 11 faculty staff, 5 researchers and 15 technical and administrative staff.

For more information and to apply, see the job listing here: <https://www.jobbnorge.no/en/available-jobs/job/255217/associate-professor-in-evolutionary-genomics-of-vertebrates> Prof. Michael D. Martin Department of Natural History NTNU University Museum

“Michael D. Martin” <mike.martin@ntnu.no>

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OhioU Evolutionary Biology

Assistant Professor, Biological Sciences (tenure track)

Location: Athens, OH

Closing Date: March 14th, 2023

Description: The Department of Biological Sciences (<https://www.ohio.edu/cas/biology>) in the College of Arts and Sciences at Ohio University (www.ohio.edu) invites applications for a tenure-track faculty position at the Assistant Professor rank in Genetics / Genomics. We seek an integrative organismal geneticist that employs state-of-the-art laboratory, computational, and genomic approaches using multicellular animal organisms. The successful applicant is expected to add breadth to our department through interactions with molecular and cellular biologists, microbiologists, and organismal biologists. Broad areas of research are welcome includ-

ing genotype-to-phenotype functional genomics; varied aspects of developmental biology (e.g., epigenetics, signaling pathways), ecological and/or evolutionary biology (e.g., responses or adaptation to abiotic or biotic stressors); or disease susceptibility. We seek applicants that can contribute to integrative projects with department faculty as well as faculty in other departments and institutes at Ohio University. The successful applicant is expected to maintain an externally funded research program, mentor diverse graduate and undergraduate students, and contribute to teaching General Genetics, Laboratory in Genetics, Molecular Genetics or a course in the applicant's area of specialization.

Minimum Qualifications: PhD in Biology, Genetics, or related field by start date of appointment.

Applications instructions: <https://www.ohiouniversityjobs.com/postings/48834> Contact: Joey Pierce, piercej@ohio.edu, 740-593-4565

Diego F. Alvarado-Serrano Assistant Professor Biological Sciences Department Ohio University

“Alvarado Serrano, Diego” <alvarado.s@ohio.edu>

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PennsylvaniaStateU EvolutionaryBiology

Penn State Scranton invites applications for a faculty position Assistant Professor of Biology, Tenure-Track, 36 weeks, beginning August 14, 2024, or as negotiated.

The successful candidate will teach three courses (9 credits) each semester of lower- and upper-level undergraduate courses in support of the campus's biology baccalaureate degree programs using traditional, hybrid, and online delivery modes and will include lecture and lab sections. Specific courses will depend on expertise but could include introductory biology, developmental biology, physiology (plant and animal), or cell biology. Participation in undergraduate research mentoring and in course, curriculum, and program development is expected. Faculty are expected to publish in refereed journals, present at the appropriate professional conferences, and participate in professional organizations. Advising students, providing career guidance, and participating in campus, university, and community service activities.

Qualifications: Ph.D. in Biology (specialization is open). ABDs completing their doctorate by Summer 2024 will be considered.

Full posting and how to apply: https://psu.wd1.myworkdayjobs.com/en-US/-PSU_Academic/details/Assistant-Professor-of-Biology_REQ_0000045817-1 Megan Van Etten <mymegy@gmail.com>

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Philadelphia Technologist TimetreeDatabase

Data Technologist for the TimeTree Evolutionary Database (deadline extended)

A position is available for a research associate (data technologist) at Temple University in Philadelphia to manage data on times of divergence of species in the tree of life. This is part of the TimeTree project and database of S. Blair Hedges (Center for Biodiversity) and Sudhir Kumar (iGEM, Institute for Genomics and Evolutionary Medicine). The position involves mining the literature to discover publications with timetrees, acquiring timetree data from authors and online, assimilating quality-controlled data into the database, and assisting the application/web developer with TimeTree database updates. The successful applicant will also be a point of contact with the scientific stakeholders.

This technical expert will have at least a bachelor's degree in biology or a related field, experience with taxonomy and evolutionary trees, be proficient in scripting and other data mining skills, and be fluent in English. The ability to interact well with other people is important.

The Center for Biodiversity and iGEM are both located within Temple's Science, Education, and Research Center (SERC) on the main campus. They are affiliated with the Department of Biology and the College of Science and Technology. Temple University is located in the heart of historic Philadelphia and is home to many academic and research institutions as well as numerous cultural attractions.

Interested persons should send an e-mail to technologist@timetree.org, stating their interest in this position, and attach their curriculum vitae which also contains contact information for three references. Review of ap-

plications will begin on 20 March 2024 and continue until the position is filled. The anticipated start date, negotiable, is 1 July 2024. Temple University is an equal opportunity, equal access, affirmative action employer committed to achieving a diverse community (AA, EOE, m/f/d/v).

TimeTree <https://www.timetree.org> Center for Biodiversity <http://www.biodiversitycenter.org>
iGEM <https://igem.temple.edu/> Hedges Lab <http://www.hedgeslab.org> Kumar Lab <https://www.kumarlab.net> “S. Blair Hedges” <sbh@temple.edu>

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Senckenberg Frankfurt Bioinformatician

Job Announcement ref. #12-24001

ERC-funded Bioinformatician Position

The Hiller Lab at the LOEWE Center for Translational Biodiversity Genomics (TBG) in Frankfurt, Germany is looking for a Bioinformatician to work on the BATPROTECT project to investigate the genomic basis of long healthspans, disease resistance and viral tolerance in bats.

BATPROTECT is a 6-year funded ERC synergy grant project that will use bats as natural models of healthy aging and disease tolerance to elucidate the molecular mechanisms behind bat’s exceptional longevity and resistance to viral and age-related diseases. BATPROTECT brings together a team of global leaders in bat biology and ageing (Emma Teeling, Dublin), bat immunology and virology (Linfa Wang, Singapore), evolution and genomics (Michael Hiller, Frankfurt), and ageing model organisms (Bjoern Schumacher, Cologne) that will jointly investigate aging and immune responses in bats from the wild and captive colonies, discover genes with evolutionary importance for longevity and disease resistance, and functionally validate longevity and immune regulators in stem and differentiated cells of bats and model organisms, with the ultimate goal to uncover new directions to improve human healthspan and disease outcome.

The Project The Bioinformatician will be responsible for the assembly of reference-quality genomes of more than one hundred bat species, for which we are generating

PacBio HiFi and HiC data. For a few focal species, we also aim at generating a T2T assembly. The Bioinformatician will also work on analyzing transcriptomics data that we are sequencing in parallel for all target bat species, using this data and our homology-based methods (TOGA) to annotate the new genomes, generating whole genome alignments of bats and other mammals, and supporting the BATPROTECT project with other data processing and analysis tasks. The Bioinformatician will work closely with other Bioinformaticians at TBG, other members of the BATPROTECT team and the Hiller lab. We offer exchanges with the other BATPROTECT labs as well as yearly retreats with all project members.

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 sequencing and assembly of reference-quality genomes, genome alignment and gene annotation, development and application of comparative genomic methods to discover differences in genes and gene expression, and the use of statistical approaches to link phenotypic to genomic changes [1-10]. 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. TBG provides access to cutting-edge computational (large HPC clusters, genome browser) and lab infrastructure to sequence genomes. English is the working language in our lab. Senckenberg and TBG provide flexible working hours, an annual special payment, a company pension scheme, the Senckenberg badge for free entry in museums, the zoo, botanical garden and Palmengarten, and a leave of 30 days per year. Frankfurt is a vibrant and highly-international city at the heart of Europe that combines a skyscraper skyline with ample park and green areas. The Economist 2022 index ranked Frankfurt among the top 10 most livable cities worldwide.

Your profile - A Master-level degree in bioinformatics / computational biology, genomics or a related area. A PhD degree is an advantage, but not strictly required. - Excellent programming skills in a Linux environment as well as experience with shell scripting and Unix tools. - Previous experience in genome assembly and ideally genome annotation.

Place of employment: Frankfurt am Main Working hours: full time (40 hours/week) / part-time options are available Type of contract: initially limited for 2 years, but ERC funding is available for a total of 4 years Start date: flexible but should ideally be in late spring 2024. Salary and benefits: according to the collective agreement of the State of Hesse (pay grade E13)

Senckenberg is committed to diversity. We benefit from the different expertise, perspectives and personalities of our staff and welcome every application from qualified candidates, irrespective of age, gender, ethnic or cultural origin, religion and ideology, sexual orientation and identity or disability. Women are particularly encouraged to apply, as they are underrepresented in the field of this position; in the case of equal qualifications and suitability they will be given preference. Applicants with disabilities (“Schwerbehinderung”) will be given preferential consideration in case of equal suitability. Senckenberg actively supports the compatibility of work and family and places great emphasis on an equal and inclusive work culture.

How to apply Please send us your application documents containing

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TexasAMU BiodiversityConservation

Tenure Track: Assistant Professor

Texas A&M University: College of Agriculture and Life Sciences: Ecology and Conservation Biology

Location College Station, TX, United States

Open Date Feb 20, 2024

Description

The Department of Ecology and Conservation Biology, College of Agriculture and Life Sciences, at Texas A&M University invites applications for a full-time, tenure-track position with a 9-month academic appointment beginning August 1, 2024. Applicants will be considered for the faculty title of Assistant Professor in applied biodiversity science, depending on qualifications. The Department is interested in evidence-driven approaches to conservation with broad relevance to food security and sustainable livelihoods. Candidates must have an earned doctorate degree in conservation, ecological sciences, or a closely related discipline, an established record of peer-reviewed publications, an ability to secure extramural research funding and contribute to professional service

activities. The successful candidate will be expected to teach two courses per year, typically at both the undergraduate and graduate level, and to mentor graduate students with support from extramural funds.

The ECCB Department < <https://eccb.tamu.edu/> > has 34 faculty, 298 undergraduate and 86 graduate students, and is growing. The Ecology and Conservation Biology program is one of four tracks under the umbrella B.Sc. degree in Ecology and Conservation Biology. The other tracks are Vertebrate Zoology, Ecoinformatics, and the Forest Resources program. The Department is engaged in the campus-wide interdisciplinary programs of Ecology and Evolutionary Biology < <https://eeb.tamu.edu/> >, Genetics < <https://genetics.tamu.edu/> >, and Applied Biodiversity Science Program < <https://biodiversity.tamu.edu/> >. The Department houses the Biodiversity < <https://brtc.tamu.edu/> > Research < <https://brtc.tamu.edu/> > and Teaching Collections < <https://brtc.tamu.edu/> > and S.M. Tracy Herbarium < <https://tracyherbarium.tamu.edu/> >, which are among the top 10 university-based biodiversity collections in the USA. World-class research programs in the department address fundamental questions in ecology, and related areas, at every level of ecological organization from genes to ecosystems, producing knowledge that is immediately applicable to the most pressing 21st century grand challenges such as climate change, biodiversity loss, ecological restoration, and integrative approaches to conservation.

Texas A&M University is a Land Grant/Sea Grant/Space Grant Research I institution and a member of the prestigious Association of American Universities (AAU). Home to over 74,000 students, Texas A&M is one of the top universities in the country in enrollment of new National Merit Scholars. The University conducts research valued at more than \$1.0 billion annually, placing it among the top 20 universities nationally, and is ranked by the National Science Foundation as a top-tier research institution. With a system-wide endowment valued at more than \$14.1 billion, the university ranks sixth among U.S. public universities. College Station/Bryan has 127,657 permanent residents and is consistently ranked among the best places to live in the country, with a low cost of living and ready access to the metropolitan centers of Austin and Houston.

Texas A&M University is an Equal Opportunity/Affirmative Action/Veterans/Disability Employer. The University is aware that attracting and retaining exceptional faculty often depends on meeting the needs of two careers and therefore has a Dual Career Program < <https://facultyaffairs.tamu.edu/resources/dual-career-program.html> >.

Qualifications

Candidates must have an earned a doctorate degree in conservation, ecological sciences, or a closely related discipline, an established record of peer-reviewed publications, and an ability to secure extramural research funding.

Application Instructions

Application materials should include the following items and be uploaded via Interfolio (<http://apply.interfolio.com/140403>): 1) a cover letter (limit 2 pages); 2) a detailed Curriculum Vitae; 3) a personal statement (limit 2 pages) that addresses philosophy of research, teaching, and service; and 4) names and contact information for three to five professional references. Review of the applications will begin on March 15, 2024. Contact Dawn Miles (dawn.miles@ag.tamu.edu) with questions regarding the uploading of materials. Contact Dr. Perry Barboza,

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TexasAMU Two Professor ForestResources Biodiversity

The Department of Ecology and Conservation Biology, College of Agriculture and Life Sciences at Texas A&M University invites applications for a full-time, Academic Professional Track (Non-Tenure) position with a 9-month academic appointment beginning August 1, 2024. Applicants will be considered for the faculty title of Instructional Assistant Professor or Assistant Professor of Practice, depending on qualifications.

The successful candidate is expected to teach undergraduate courses in forest resources, with primary needs in Forest Measurements and Field Studies in Forest Ecosystems (summer camp). Expertise and interest in teaching forest protection, arboriculture, and/or geographic information systems are a plus. In addition, the candidate is expected to advise the forestry student organization (Society of American Foresters chapter), coordinate outreach to partner organizations, and engage in other on- and off-campus professional activities.

More details, including the application portal, are avail-

able at: <http://apply.interfolio.com/140390> For queries, contact the committee chair, Dr. Jianbang Gan jianbang.gan@ag.tamu.edu

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The Department of Ecology and Conservation Biology, College of Agriculture and Life Sciences, at Texas A&M University invites applications for a full-time, tenure-track position with a 9-month academic appointment beginning August 1, 2024. Applicants will be considered for the faculty title of Assistant Professor in applied biodiversity science, depending on qualifications. The Department is interested in evidence-driven approaches to conservation with broad relevance to food security and sustainable livelihoods. Candidates must have an earned doctorate degree in conservation, ecological sciences, or a closely related discipline, an established record of peer-reviewed publications, an ability to secure extramural research funding and contribute to professional service activities. The successful candidate will be expected to teach two courses per year, typically at both the undergraduate and graduate level, and to mentor graduate students with support from extramural funds.

More details, including the application portal, are available at: <http://apply.interfolio.com/140403> For queries, contact the search committee chair, Dr. Perry Barboza perry.barboza@ag.tamu.edu

Katy Gonder <katy.gonder@gmail.com>

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TreeOfLife Sanger Bioinformaticians

Hi all,

I'd like to announce 2 senior bioinformatician or bioinformatician in the Darwin Tree of Life Project. Those positions are to mainly build, and also to analyse genomes across the Tree of Life: https://sanger.wd3.myworkdayjobs.com/en-US/WellcomeSangerInstitute/job/-Bioinformatician_JR101682 I worked on Shane's team for 4 years and I can say those were some of the best years of my life. If you have questions about these positions you can talk to me.

There is another position for a Principal Computer Scientist - someone to lead on algorithm and method development for genome assembly, as so

many challenges still remain from polyploids, to very large genomes, and complex symbiotic mixtures : https://sanger.wd3.myworkdayjobs.com/en-US/-WellcomeSangerInstitute/job/Principal-Computer-Scientist—Tree-of-Life-Assembly_JR101632 *First deadline is March 10.*

Come join us at the Sanger!

Best, Marcela.

Marcela Uliano da Silva, PhD

Senior Bioinformatician - Wellcome Sanger Institute Darwin Tree of Life Project (DTOL) Churchill College Postdoctoral By-Fellow, University of Cambridge Cambridge, UK

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

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UCalifornia Berkeley LabTech PoisonFrogDrosophila

We have a full time lab tech position open with a start date in June. The employment period is 12-18 months with a possible 6-month extension and includes full benefits. Salary is \$24.65 - \$29.33 and commensurate with experience. Details below. Unfortunately the position cannot provide visa sponsorship.

Research in the Tarvin Lab (www.tarvinlab.org) integrates studies of natural history with genomics and phylogenetics. Specifically, our research aims to elucidate causal genetic mechanisms underlying novel traits, to characterize phenotypic diversification at macro and micro-evolutionary scales, and to identify factors that promote and constrain results of the research contribute to foundational knowledge of animal physiology that can shape our understanding of evolution, molecular biology, and pharmacokinetics.

This position will involve animal husbandry for poison frogs and fruit flies in addition to conducting experiments and lab management tasks as part of poison frog research and experimental evolution research with *Drosophila melanogaster*. Our work couples a comprehensive set of physiological assays with high resolution genome sequencing and transcriptomics to unravel the mechanisms of chemical defense evolution. The position also includes other managerial tasks and research assistance related to research projects being conducted by

graduate students, undergraduate students, postdocs, and the PI.

In addition to gaining hands-on experience in animal husbandry, genomics, and experimental research, this role offers exposure to interdisciplinary collaboration within the Department of Integrative Biology and Museum of Vertebrate Zoology. This position presents avenues for professional growth through the opportunity to attend seminars, lab meetings, and engage with experts across diverse fields.

Application Review Date

The First Review Date for this job is: 03/07/2024. For full consideration please apply by 3/15/2024. The position is open until filled.

Responsibilities

- Assisting in the husbandry, maintenance, and record keeping of 70 isogenic fly lines and several species of poison frogs.
- Assisting in physiological assays and genomics of fly and frog populations.
- Managing lab inventory, ordering supplies, complying with institutional safety and animal care regulations.
- Assisting others in the lab with miscellaneous tasks.

Required Qualifications

- Highly organized and interested in learning new skills.
- Excellent communication skills, both written and verbal.
- A knack for creative approaches to solving problems.

Preferred Qualifications

- Previous experience working in a fly or frog lab (or similar husbandry experience).
- An interest in pursuing a graduate degree in biology.
- Bachelor's degree in Biology or related area and/or equivalent experience/training.

Apply by Mar 15 via jobs.berkeley.edu - search for job #65179

Rebecca (Becca) D. Tarvin

Assistant Professor, Department of Integrative Biology Assistant Curator of Herpetology, Museum of Vertebrate Zoology 3101 Valley Life Sciences Building University of California Berkeley Berkeley, CA 94720-3160 Office: (510) 642-0308 Lab website: www.tarvinlab.org Twitter: @frogsicles

Senior Associate, AmphibiaWeb < <http://www.amphibiaweb.org/> >

Rebecca Tarvin <rdtarvin@berkeley.edu>

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UCalifornia Los Angeles Vertebrate Evolution

Tenure track Professor (open-rank) and Donald R. Dickey Chair in Vertebrate Biology

Apply now to Tenure track Professor (open-rank) and Donald R. Dickey Chair in Vertebrate Biology

ECOLOGY AND EVOLUTIONARY BIOLOGY / L&S
Life Sciences / UCLA

POSITION OVERVIEW

Position title: Donald R. Dickey Curator and Endowed Chair in Vertebrate Biology

Salary range: The posted UC salary scales [<https://www.ucop.edu/academic-personnel-programs/-compensation/index.html>] set the minimum pay determined by rank and/or step at appointment. See Table 1 [https://www.ucop.edu/academic-personnel-programs/_files/2023-24/oct-2023-acad-salary-scales/t1.pdf]. The salary range for this position is \$74,600-\$197,100. "Off-scale salaries" and other components of pay, i.e., a salary that is higher than the published system-wide salary at the designated rank and step, are offered when necessary to meet competitive conditions. See campus compensation page for additional information.

APPLICATION WINDOW

Open date: February 21, 2024

Next review date: Monday, Apr 1, 2024 at 11:59pm (Pacific Time) Apply by this date to ensure full consideration by the committee.

Final date: Sunday, Jun 30, 2024 at 11:59pm (Pacific Time) Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

POSITION DESCRIPTION

The Department of Ecology and Evolutionary Biology (EEB) at UCLA, an emerging Hispanic Serving Institution, is searching for a tenure track Professor (open rank) in Vertebrate Biology. The appointed individual will be the Donald R. Dickey Curator and Endowed Chair in Vertebrate Biology, an endowed position to steward, curate, and maintain the Donald R. Dickey Bird and Mammal Collection. The Dickey Bird and Mammal Collection is one of the world's best bird

and mammal collections from the American Southwest and Central America. It houses nearly 64,000 specimens from North and Central America and Pacific islands. Also included in the collection are Donald R. Dickey's rare photographs, books, and field notes. Candidates with expertise in ecology or evolutionary biology, broadly defined, will be considered. Because this position is established among EEB, the Dickey Collection, and the UCLA DataX initiative, [<https://datax.ucla.edu/>], candidates must have a Ph.D. degree in a relevant discipline, an integrative collections-based research program that harnesses the power of new technologies in data acquisition, curation, and analysis of natural history collections (e.g., phenoscaping, morphometrics, eco-evolutionary modeling, or digital imagery), and a background in the curation and analysis of complex, large, and multidimensional datasets. The ideal candidate should have experience with the curation, collection, and preparation of mammalian and/or bird specimens and museum data management. The Dickey Chair will be responsible for the supervision of the collections manager. The successful candidate will be expected to develop an externally funded research program, pursue institutional grants to grow the impact of the collection locally, regionally, and nationally, and teach and mentor at both the undergraduate and graduate levels, actively using the Dickey collection. We are especially interested in candidates whose research complements existing departmental strengths in inclusive education and who will develop courses that satisfy the UCLA undergraduate diversity requirement and/or courses that include topics of diversity, equity and inclusion and how they relate to the fields of ecology and evolutionary biology. In addition, the successful candidate will develop courses in zoology, organismal biology, data science, natural history collections, and/or quantitative methods.

Application packages should be submitted online through [<https://recruit.apo.ucla.edu/JPF09169>] and include the following individual documents: 1) curriculum vitae; 2) research statement including future directions as well as a description of experience with and vision for museum collections (3 pages maximum); 3) teaching statement that describes teaching interests as well as experience in using evidence-based inclusive teaching practices that promote active learning (2 pages maximum); 4) statement of contributions to equity, diversity, and inclusion that includes previous and planned efforts that advance EDI through formal and/or informal mentoring, research or education activities (2 pages maximum); 5) three letters of recommendation; and 6) cover letter. Review of

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UConnecticut Recent Graduates Research Opportunity

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

Scholars will conduct original biological research on the theme of genomic novelty under the mentorship a faculty members and graduate student mentor, participate in professional development activities, and expand high demand technical skills in preparation for a diverse array of STEM careers and/or graduate school. Scholars are trained in a diverse set of lab skills, including molecular cloning, sequencing, PCR, and bioinformatics using HPC.

Our website and application information can be found here: <https://genome-postbac.biology.clas.uconn.edu/>. Applicants are encouraged to visit the website to learn more about the program and review potential research projects/mentors. The application deadline for the 2024 cohort is March 1st.

Program Overview: Where: UConn, Storrs Campus
When: Applications due March 1st - program runs from August 2024-July 2025

No research experience required!

If you have any further questions, please feel free to contact me at teisha.king@uconn.edu.

Best, Teisha King, Ph.D RaMP Program Coordinator
University of Connecticut Dept of Ecology and Evolutionary Biology

“King, Teisha” <teisha.king@uconn.edu>

UKarlstad Aquatic Life Evolution

UKarlstad.AquaticEcology

Senior lecturer in biology with a specialisation in aquatic ecology

****Application deadline: 28 February 2024****

Karlstad University Faculty of Health, Science and Technology Department of Environmental and Life Sciences

Karlstad University has a total of approximately 1,400 employees and 19,000 students spread across two inspiring campus environments in Karlstad and Arvika. More information at: kau.se/en/work-with-us

Description The subject of Biology has a staff of around 40 people and belongs to the Department of Environmental and Life Sciences within the Faculty of Health, Science and Technology. The subject of Biology offers a Degree of Bachelor, Degree of Master and Master of Science in Secondary Education in Biology and Science. Biology also offers doctoral studies and currently has 18 doctoral students enrolled. Our main research areas are ecology, evolution and biology education. Ecology research is mainly conducted by the River Ecology and Management Research Group (RivEM) and includes fundamental and applied research on lakes, rivers and streams, as well as their catchment areas. The department offers excellent conditions for aquatic ecology research with access to an aquarium facility with artificial streams, technical support and field material, among other things. Research is primarily focused on sustainable use of natural resources that is mutually beneficial to human society and nature. This includes research areas such as the effects of hydropower on aquatic and terrestrial environments, invasive species and endangered fish and invertebrate species. Many research projects are carried out in collaboration with stakeholders from industry, government agencies, professional organisations and land owners. You can find more information about us and our research on our websites: kau.se/en/biology and kau.se/en/nrrv.

Duties We are now accepting applications for a senior lectureship in biology with a specialisation in aquatic ecology. Duties include teaching and research. The position also includes supervising future doctoral students and postdocs in the subject area.

Teaching duties primarily include teaching courses in our undergraduate and Master's programmes. It may also be required to teach courses included in the teacher education programmes. Links to programmes: Biology Programme and Master Programme in Biology: Ecology and Conservation Biology

In addition to teaching, the position includes research. As senior lecturer, you will develop a research area that complements our current biology research, primarily research in freshwater ecology. We expect you to initiate new externally funded research projects, in collaboration with other biology researchers at the department.

You will also be expected to collaborate with the surrounding community to ensure that the knowledge and expertise available at the university benefit society.

To contribute to a positive working environment and help further the subject's activities, we expect you to be a present and to actively take part in the day-to-day operations and workplace community.

Qualification requirements To be eligible for the position of senior lecturer in biology, applicants are required to have demonstrated teaching expertise and hold a PhD in biology with a specialisation in aquatic ecology, or equivalent academic qualifications.

Pursuant to Karlstad University's Appointments Procedure, teachers must have the personal qualities required to perform the duties involved, as well as completed training in higher education pedagogy. An applicant without these qualifications may be appointed on the condition that he or she commits to completing the training within two years of employment, or applies for validation of equivalent qualifications. For other qualification requirements and assessment criteria, please refer to Karlstad University's Appointments Procedure available on the University's website: <https://www.kau.se/en/work-us/work/vacancies> Excellent command of written and spoken English is also a requirement. As a lecturer at Karlstad University, you should be able to teach in both English and Swedish. An applicant who does not meet the requirement of proficiency in Swedish may still be hired provided they are able to actively acquire the language skills.

Assessment criteria In the assessment, equal weight will be given to research and teaching expertise. The assessment will be based on the criteria stated in the Higher Education Ordinance, Chap. 4 Sect. 4. We will mainly focus our assessment of your application (research, teaching, obtained research funding, administration) on experience and qualifications from the last 5 years (with the exception of parental leave, illness, etc.).

Special weight will be given to: - documented research

expertise in aquatic ecology

— / —

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>

ULorraine EvolutionaryBiology

Open position - call for applicant Junior Professor Chair in Evolutionary biology- Université de Lorraine, NANCY, France

The Université de Lorraine seeks applications from talented and motivated early-career researchers for a Junior Professor Chair in Paleobiochemistry/Evolutionary biology. The Junior Professor will integrate the 'Stress Response and Redox Regulation team' (SR3) of the 'Tree-Microbe Interactions department' (UMR IAM). He/she will initially be recruited for a five-year period before evaluation for a permanent tenure. Candidates are expected to bring to the UMR IAM advanced skills and knowledge, and possibly a professional network, in one or more of those topics: evolutionary biology, phylogenomics, bioinformatics, molecular biology, or protein biochemistry.

The Junior Professor will be encouraged to develop a research program in evolutionary biochemistry aimed at understanding the paths of selection of protein properties during evolution, notably via the prediction and resurrection of ancestral proteins, followed by their comparison at the biochemical and functional levels with modern enzymes. To this end, the Junior Professor will directly benefit from i) the SR3 team skills in protein biochemistry and knowledge of the functional diversity of plant and fungal protein families involved in stress response or redox regulation, ii) the favorable and emulating working environment offered by the UMR IAM (approx. 100 staff members including several bioinformaticians), iii) a kick-starter budget of 200 k euro , iv) the experimental platforms of the A2F scientific cluster, which provide state-of-the-art equipment and know-how for molecular analyses, bioinformatics, genomics, protein engineering, microscopy, and plant cultivation, and v) dynamic and collaborative research clusters in NANCY (Labex ARBRE, A2F scientific cluster) as well as ambitious programs of the Université de Lorraine (ex.: Lorraine Université d'Excellence, Orion, EURECA-PRO).

The Junior Professor will also be invited to build and give lectures in phylogenomics, bioinformatics, and evolutionary biology to life science graduate students of the Faculty of Sciences and Technologies (teaching load of 64 hours per year); notably within the Master programs in Agrosciences and in Microbiology. Those lecturing activities will be facilitated by the teaching department of Plant Biology, Genetics, and Microbiology, the fully-equipped training facilities of the Faculty of Sciences and Technology, and by the university pedagogy training program (DACIP).

The Université de Lorraine is one of the largest university in France; regrouping over 60.000 students and 7.000 employees throughout a network of Faculties, Technological Institutes, and Engineer Schools mostly based in NANCY and METZ. The university comprises 60 research laboratories (hosting approx. 4.000 professors or assistant-professors); many of which are joint laboratories with national research institutes such as INRAE, INRIA, or CNRS. The city of NANCY is located in the northeastern French region Grand-Est, in a European transborder area near Germany, Luxembourg, and Belgium, and only 1h30 from Paris by train. NANCY is a historical city of approx. 100.000 inhabitants, at the center of a larger urban area of approx. 500.000 inhabitants. This medium-sized city combines affordability, proximity to country-side, and, with a fifth of the population being a university student, a dynamic and culturally-active livelihood.

Contact: UMR IAM, campus FST, entrée 1B - étage 6, 54500 VANDOEUVRE-LÃS-NANCY, France Prof. Mélanie MOREL-ROUHIER - melanie.morel@univ-lorraine.fr

Pr Rouhier Nicolas Unite Mixte de Recherches 1136 Université de Lorraine/INRAE Interactions Arbres Microorganismes Faculté des sciences, entrée 1B, 3é étage Bd des aiguillettes 54500 VANDOEUVRE-Lès-NANCY France Phone (Nancy) ++ 33 3 72 74 51 57 website: https://mycor.nancy.inra.fr/IAM/?page_id=103 link to gene atlas of Fe-containing proteins in Arabidopsis: <https://conf.arabidopsis.org/display/COM/-Atlas+of+Fe+containing+proteins> Nicolas Rouhier <nicolas.rouhier@univ-lorraine.fr>

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UManchester TeachingEvolution

The University of Manchester - Job Information | Apply for Lecturer/Senior Lecturer in Zoology/Biology (Academic Teaching and Scholarship)

Lecturer/Senior Lecturer in Zoology/Biology (Academic Teaching and Scholarship) Apply for job Job reference:BMH-024680 Salary: 45,585 - 68,857 per annum depending on relevant experience Faculty/Organisational Unit:Biological Sciences, Medicine Health Location:Manchester Employment type:Permanent Division/Team:Division of Evolution, Infection & Genomics Hours Per Week:Full Time (1 FTE) Closing date:13/03/2024 Contract Duration:Permanent School/Directorate:School of Biological Sciences

We seek an outstanding candidate for a “Teaching Focused” Lecturer or Senior Lecturer position in the area of Zoology/Organismal Biology. You will contribute to the delivery of the Undergraduate and Postgraduate curriculum by preparing and giving lectures, seminars, tutorials, workshops and field courses as well as undertaking any associated management and administrative duties. The role will include developing and marking assessments to accurately measure students’ performance and providing advice and guidance to students to support academic and personal progress. The role will also include an expectation to engage in teaching scholarship through evidence-based enhancement and development of teaching and learning methods as well as dissemination of teaching and learning scholarship practices to others. The applicant should hold a PhD (or equivalent) in a Biological or Zoological area. They should possess sufficient breadth or depth of specialist knowledge in the discipline to deliver teaching programmes, provide learning support and develop and run field courses. Evidence of a range of delivery techniques used to enthuse and engage students is essential. The candidate should also have extensive and up-to-date theoretical and practical knowledge in their subject area. Experience of contribution to administrative tasks associated with teaching and learning support (e.g. course development, assessment exercises, examinations, recruitment and management of resources) is essential.

The position is available from May 1, 2024.

The School is strongly committed to promoting equality and diversity, including the Athena SWAN charter for gender equality in higher education. The School holds

a Silver Award which recognises their good practice in relation to gender; including flexible working arrangements, family-friendly policies, and support to allow staff achieve a good work-life balance. We particularly welcome applications from women for this post. Appointment will always be made on merit. For further information, please visit: <https://www.bmh.manchester.ac.uk/-/about/equality/> What you will get in return:

Fantastic market leading Pension scheme Excellent employee health and well being services including an Employee Assistance Programme Exceptional starting annual leave entitlement, plus bank holidays Additional paid closure over the Christmas period Local and national discounts at a range of major retailers

As an equal opportunities employer we welcome applicants from all sections of the community regardless of age, sex, gender (or gender identity), ethnicity, disability, sexual orientation and transgender status. All appointments are made on merit.

Our University is positive about flexible working - you can find out more here

Hybrid working arrangements may be considered.

Please note that we are unable to respond to enquiries, accept CVs or applications from Recruitment Agencies.

Any recruitment enquiries from recruitment agencies should be directed to People.Recruitment@manchester.ac.uk.

Any CV's submitted by a recruitment agency will be considered a gift.

Enquiries about the vacancy, shortlisting and interviews:

Prof. Raymond O'Keefe.

Tel: 0161 275 7393

Email: rokeefe@manchester.ac.uk

Dr Reinmar Hager Senior Lecturer in Biology Senior Postgraduate Tutor, Division of Evolution, Infection and Genomics Chair of the School Board, School of Biological Sciences

School of Biological Sciences | Faculty of Biology, Medicine and Health | Michael Smith Building

The University of Manchester | Manchester M13 9PT, UK Tel. ++44 (0)161-275-1550 | [Research Profile](#)

Reinmar Hager <Reinmar.Hager@manchester.ac.uk>

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UMissouri StLouis PlantDiversity

We invite nominations of and applications by outstanding scientists for the E. Desmond Lee Endowed Professorship in Botanical Studies. Successful candidates will have an active research program that incorporates ecology, evolution, and conservation approaches to understanding plant diversity. The appointment will be made in the UMSL Department of Biology at either the associate or full professor rank. This tenured position was established to enhance the partnership between the University of Missouri-St. Louis and the Missouri Botanical Garden, where the professor will have principal investigator status. This position is one of 36 endowed professorships in the Des Lee Collaborative Vision (<https://www.umsl.edu/desleecollaborative/index.html>), which are distinct from more traditional academic positions in having a responsibility for community outreach and engagement. Therefore, we seek a broadly interactive colleague who is interested in crossing disciplinary boundaries within science and from science to a broad and diverse community.

More information can be found at <https://www.umsl.edu/biology/files/folder/des-lee-mobot-job.pdf> The application review process will start in mid-February 2024 and will continue until the position is filled. The position will be available beginning Fall 2024, but the start date is negotiable. For full consideration, candidates must provide a cover letter outlining qualifications and interests, detailed curriculum vitae, statement of current and future research plans, and a statement of experience and plans for outreach consistent with the Des Lee Collaborative vision.

Questions may be addressed to Dr. Bethany Zolman (zolmanb@umsl.edu).

Formal submission of application materials must be done via the University's website: www.umsl.jobs. Click on the E. Desmond Lee Endowed Professorship in Botanical Studies, and follow the instructions provided. Job posting ID is 50233.

"Zolman, Bethany K." <zolmanb@umsl.edu>

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UNewOrleans EndowedChairInBiodiversity

I would like to announce a job opening for the University of New Orleans in Tropical Biodiversity for the evoldir. Review of applications begins March 1st. Details can be found below:

The Department of Biological Sciences at the University of New Orleans announces an opening for the Doris Zemurray Stone Endowed Chair in Biodiversity.

This Endowed Chair, along with three other Endowed Chairs at UNO, will collaborate with the Audubon Nature Institute as part of a multi-disciplinary program of research and outreach to develop the next generation of conservation professionals. The endowments provide support for graduate students and undergraduate interns to work with the Audubon Zoo, Audubon Aquarium, Audubon Insectarium or Freeport-McMoRan Audubon Species Survival Center on projects of local or regional conservation importance (including Central or South America).

Duties include, but are not limited to, developing a robust research program, securing extramural funds, directing graduate students, and teaching at the undergraduate and graduate levels.

The Endowed Chair should have a dynamic and innovative research program centered on tropical animal biodiversity, with preference given to those working in Central or South America. The areas of research and taxa of interest are open, but may include invertebrate or vertebrate animal ecology, evolutionary biology, behavior, or conservation genetics/genomics.

Candidates should have at least three or more years of experience at the rank of Assistant professor or have credentials appropriate for appointment at the rank of Associate Professor or Professor.

Required Qualifications

§A Ph.D. degree in Biology or relevant field.

§Relevant postdoctoral experience.

§Teaching experience.

§Three or more years of experience at the rank of Assistant Professor.

Desired Qualifications

§Experience obtaining independent funded research.

§Experience mentoring graduate students in research projects.

The University of New Orleans is an Affirmative Action and Equal Employment Opportunity employer. We do not discriminate on the basis of race, gender, color, religion, national origin, disability, sexual orientation, gender identity, protected Veteran status, age if 40 or older, or any other characteristic protected by federal, state, or local law.

The University of New Orleans participates in Louisiana's State As a Model Employer plan and invites qualified individuals with disabilities to apply.

WorkNOLA < <https://worknola.com/job/348065/-professor—doris-zemurray-stone-endowed-chair-in-biodiversity> >

The right job in the best place. worknola.com

T. Erin Cox (she/her/hers) Assistant Professor of Biology University of New Orleans 2000 Lakeshore Drive

New Orleans, LA 70148

+01 (504) 280-6642

Traci Erin Cox <tecox@uno.edu>

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USheffield ResearchTech AnimalColourationAI

The research group of Dr Christopher Cooney (<https://www.cooneylab.co.uk/>) in the School of Biosciences at the University of Sheffield (UK) is recruiting a research technician.

Summary The post is part of a funded project titled 'Unlocking the complexity of organismal colour patterns using artificial intelligence' that aims to develop new approaches for extracting and analysing high dimensional colour pattern information from images. Capitalising on extensive photographic datasets of animal colouration (<https://www.projectplumage.org/>), the project aims to use machine learning and computer vision techniques to produce a 'next generation' software toolkit for characterising organismal colour pattern information with wide applicability.

The role The main responsibilities of the role are to assist

with creation of annotated training datasets for machine learning models, and the organisation and maintenance of large phenotypic trait databases of animal colouration. This is an excellent opportunity to work on a project bridging biological and computer science research and to contribute to the development of cutting-edge AI based research tools.

The researcher will join the Cooney Lab which sits within the world-class Ecology and Evolutionary Biology Research Cluster at Sheffield. The project has strong collaborative links with other Sheffield academics including Dr Gavin Thomas (School of Biosciences), Dr Steve Maddock and Prof Jungong Han (Department of Computer Science). The role will also involve collaboration with international partner Dr Julien Renoult (University of Montpellier) and there is scope for a multi-day research visit to Montpellier as part of the role.

The post is full time for a period of 12 months and available immediately.

How to apply:

Full details of the role and how to apply can be found at this link: <https://www.jobs.ac.uk/job/DFY181/-research-technician> The closing date for applications is 8 March 2024 at midnight.

Any queries should be directed to Dr Chris Cooney (c.cooney@sheffield.ac.uk)

The University of Sheffield is committed to equality and valuing diversity and all applicants will be judged on merit according to the selection criteria.

– NERC Research Fellow School of Biosciences University of Sheffield www.cooneylab.co.uk Chris Cooney <c.cooney@sheffield.ac.uk>

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VanderbiltU DataScience Bioinformatics

The Vanderbilt Microbiome Innovation Center (VMIC) is seeking a Data Scientist Associate 2 to provide support to the VMIC community. The Data Scientist will work within a multidisciplinary team of scientists and clinicians in research laboratories at Vanderbilt University and Vanderbilt University Medical Center, researching the role of the gut microbiome in infectious and non-infectious diseases. A hybrid work schedule

may be considered.

The successful candidate will have had either academic or on-the-job training in computational research with demonstrable productivity in bioinformatics and/or statistical analysis of large high-throughput data in one or more of the following areas: 16S rRNA sequencing, metagenomics, transcriptional analyses, single-cell omics profiling, or RNAseq data analysis. Other application skills in bioinformatics, such as methods development and applications such as machine learning or data integration efforts, will be a plus. High-throughput metabolomics analysis experience is desirable but not required.

For full job posting see: https://vumc.wd1.myworkdayjobs.com/vumccareers/job/-Nashville-TN/Data-Scientist-Associate-II-Vanderbilt-Microbiome-Innovation-Center_R-16244-1 If more information is needed, please reach out to Megan Schladt: megan.schladt@vumc.org.

“Behringer, Megan” <megan.g.behringer@Vanderbilt.Edu> (to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<<mailto:golding@mcmaster.ca>>)

VirginiaTech InvasiveSpecies

Virginia Tech is seeking applicants for seven tenure-track faculty positions associated with the Invasive Species Working Group (ISWG). These new faculty positions will be housed within several colleges and academic units across the Virginia Tech campus as part of a university-wide interdisciplinary investment (Destination Area Phase 2) to make Virginia Tech a center of excellence in the science, policy, and management of invasive species. Positions will be announced separately beginning in early 2024. For up-to-date information please frequently check our webpage -Join The Team.

We are seeking individuals who possess the skills to bridge disciplinary divides, drive innovative solutions, and engage in team science to apply for the following positions (associated college homes are indicated):

- Applied Economist (College of Science, College of Agriculture and Life Sciences, and the Kellogg Center) - Environmental Law and Policy (College of Liberal Arts and Human Sciences) - Environmental Data Scientist (College of Science) - Invasive Species Research and Extension (College of Agriculture and Life Sciences) - Management Technologist (College of Natural Resources

and the Environment) - Global Change Interactions Biologist (College of Natural Resources and Environment) - Invasive Plant Genomics (College of Agriculture and Life Sciences)

Contact ISWG Director Jacob Barney (jnbarney@vt.edu) or the ISWG website for updates. Please direct position-specific questions to the listed contact in the position advertisement.

“Haak, David” <dhaak@vt.edu>

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**WilliamMaryU Virginia
TeachingEvolution**

Visiting Assistant Teaching Professor of Biology (animal/organismal)

The Department of Biology at William & Mary, a pub-

lic university of the Commonwealth of Virginia, invites applications for a two-year, non-tenure track Visiting Teaching Assistant Professor instructional position that will begin August 10, 2024.

We seek an individual with expertise in organismal biology and animal behavior who can teach a mid-level animal behavior course and an organismal biology course. The successful applicant will be expected to be an effective teacher and will have a 3-3 teaching load, including small upper-level undergraduate seminars or special topics courses and lab sections.

A Ph.D. in animal behavior/organismal biology or a closely related field is required at the time appointment begins (August 10, 2024). Previous experience teaching undergraduate courses is required.

Postdoctoral research experience, and the ability to offer special topics courses in the areas of animal behavior or organismal biology are preferred.

<https://jobs.wm.edu/postings/58380> “Allen, Jonathan” <jdallen@wm.edu>

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Other

AarhusU FieldWorkVolunteer 74	LoyolaU Chicago NSF REU SticklebackPaleontology 79
BestStudentPaperAward BehaviouralEvolution Mar8 74	MolecularEcologyPrize CallForNominations 79
Conservation VolunteerPositions 75	OmennPrize BestArticleEvolMed Apr15Deadline .. 80
ESEB OutreachInitiativeFund Mar15 76	PodcastFromHeredity TeachingResource 80
FieldWorkVolunteers PyreneesSnapdragon 77	SSE funding CongressionalVisitsGrants 81
Houston Texas PostBaccResearch STEGG 77	Teaching Phylogeny 81
IntlSocEvolMed DiscountedMemberFeesUntilFeb15 78	UExeter FieldAssistants InsectSociality 81
LouisianaStateU PostbaccTrainingPrg Mar3 78	

AarhusU FieldWorkVolunteer

Where - Denmark, Aarhus University
 What - Research assistant for arthropod sampling in Denmark
 When - Minimum 1-2 months between June and October 2024

Title: The EcoGenetics Center (Aarhus University) seeks students for sampling and classification of arthropods
 Position: Research assistant for arthropod sampling in Denmark
 Description: The EcoGenetics Centre is looking for students to sample and classify arthropods as part of a large research project on the impact of agriculture on genetic diversity (and thus adaptability and persistence) in arthropod populations. Our field work season is about to begin, and arthropods will be sampled from more than 80 sites all over Denmark! Samples are taken using a suction device and then brought to the laboratory, where they will be analyzed to separate various arthropod groups (spiders, beetles and collembolans). We are looking for enthusiastic students who are eager for fieldwork experience to help us ensure the acquisition of data that's crucial for the realization of scientific projects of international significance. Sampling is completely dependent on weather conditions, so the number of working hours can vary drastically depending on the weather and it is difficult to plan a schedule well in advance. When the weather allows us to sample, we are in the field for many hours and often for several consecutive days. For this reason, dedication and flexibility are the key words.

Requirements: - Dedication and interest in active field work - Ability to work in a team and outdoors in tiring situations. Our working language is English. - Flexible working hours and ability to work with short notice, including long days and possible weekends - Availability for a minimum period of 1 or 2 months between June and October 2024 (availability for longer periods is an advantage) - Basic arthropods taxonomy knowledge is an advantage.

We offer: - Practical and hands-on experience of data collection in the field; - Involvement in an active, international research group; - Accommodation in Aarhus during the stay; - Food and accommodation during the sampling trips.

Contact: Virginia Settepani - Section for Genetics Ecology and Evolution - Aarhus University
 virginia.settepani@bio.au.dk

Virginia Settepani

Center Manager, PhD

Novo Nordisk Challenge Centre for Ecological Genetics
 Section for Genetic, Ecology and Evolution Department
 of Biology Ny Munkegade 116, Building 1540, office 228
 Aarhus University

Mobile: +4561666418 E-mail: virginia.settepani@bios.au.dk
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<https://bio.au.dk/forskning/forskningscentre/-center-for-ecological-genetics/> Virginia Settepani
 <virginia.settepani@bio.au.dk>

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Best Student Paper Award Behavioural Evolution Mar8

Animal Behavior Society Student Paper Competition:
 Submit Your Extended Abstract by March 8

The 2024 Warder Clyde Allee Session for Best Student Paper Competition will be held during the annual meeting of the Animal Behavior Society from June 26-29, 2024 in London, Ontario (<https://www.animalbehaviorsociety.org/2024/index.php>). All eligible students and recent graduates are encouraged to apply.

Eligibility requirements: Any independent graduate student research on animal behavior is suitable for the application. The participant may present any work done prior to the completion of the PhD; most commonly it will be one component of the student's PhD dissertation, but this is not required. The work presented may be part of a larger collaborative effort, but the student must be first author and have principal responsibility for conceptualization and design of the research, collection and analysis of the data, and interpretation of the results. The work presented may be unpublished or published at the time of submission to the Allee Competition. The entrant cannot have been awarded the Ph.D. degree before the start of the preceding ABS annual meeting. An individual can enter the session only once per lifetime. If selected as a finalist in the period of eligibility, applicants with dependent care responsibilities that preclude conference attendance may request a one-year deferral of participation in the competition.

To submit an entry to the Allee Competition, applicants must: (1) check the appropriate box in the online abstract submission system for the annual meeting; (2) submit a cover letter and an electronic version of their extended abstract as specified below; (3) confirm that they meet all eligibility requirements above; (4) present an in-person spoken version during the annual meeting;

and (4) participate in the Allee welcoming dinner and the ABS awards ceremony during the annual meeting.

Applications, including the extended abstract, will be due on the meeting's abstract submission deadline - March 8, 2024. Applicants will be asked to submit a cover letter with addresses and phone numbers, as well as an extended abstract in PDF format (see below for details). Extended abstracts should be no more than four single-spaced text pages, including no more than a total of two tables and/or figures. This limit includes all extended abstract sections (see below). Margins must be at least 2.5 cm on all sides with 12 pt font. Follow author guidelines for the journal *Animal Behaviour* (<https://www.elsevier.com/journals/animal-behaviour/0003-3472/guide-for-authors>) for appropriate formatting of references as well as use of abbreviations, nomenclature and units.

Extended abstracts are shortened manuscripts, not long abstracts. They should include the following sections, all included within the 4-page limit:

1. TITLE & AUTHOR

2. ABSTRACT (≤300 words) - Clearly and accurately reflect the study topic, results, and importance.

3. KEYWORDS (3-5)

4. INTRODUCTION - Demonstrate a mastery of the literature as evidenced by appropriate citations and synthesis. - Provide a background for the current study and integrate new ideas and/or research foci into existing conceptual frameworks. - Clearly articulate hypothesis (if relevant) and/or objectives.

5. MATERIALS & METHODS - Ensure that methods and analyses are appropriate for testing the stated hypotheses and objectives.

6. RESULTS & DISCUSSION - Present results in a clear manner. - Ensure that tables and figures are understandable, with appropriate labels and legends. - Interpret the results in a manner consistent with findings and relate results back to previously stated hypotheses and objectives. - Ensure that all computations and analyses are reproducible.

7. CONCLUSION - Integrate major findings into past and current knowledge.

8. REFERENCES (15 total) - Format according to *Animal Behaviour* guidelines. - Limit references to no more than fifteen in total.

Allee judges will evaluate all applications and then select a slate of applicants to be invited to present their research in-person during the Allee Competition at the annual meeting. Submission of an entry does not guaran-

tee participation in the Competition, but if an applicant is not invited to participate in the Allee Session they will be guaranteed a regular oral presentation at the annual meeting.

If invited, the oral presentation should focus on the material presented in the submitted extended abstract but may also include other original material as well as general introductory and concluding remarks. Questions should be addressed to ABS Second President-Elect, Beth Jakob (preselect2@animalbehaviorsociety.org).

Click here to submit your

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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>

Conservation Volunteer Positions

WildComm (<https://capeconservation.co.za/projects>) is a dynamic conservation organisation dedicated to fostering the next generation of conservationists. Through affordable volunteering opportunities, we empower individuals to actively engage in impactful research and conservation initiatives, bridging knowledge gaps and cultivating a shared appreciation for the natural world. We offer the opportunity to develop a range of skills, which is a perfect steppingstone for your future career in conservation, or simply to take time out whilst also giving back. We are always looking for hands-on and passionate assistants to join our team and support our goals.

Key activities Recurrently have a limited number of positions for volunteers to assist on our rhino research programme. This programme, situated in the South African bushveld of northern Limpopo, focuses on studying rhino behaviour, with a special emphasis on investigating the effects of dehorning as a method to reduce the risk of poaching. Volunteers will work closely with experienced staff to collect valuable data on rhino behaviour before and after dehorning procedures. Through observations and other data collection methods, participants contribute to understanding how dehorning impacts rhino behaviour and social dynamics. As a volunteer, you will play a pivotal role in our efforts in advancing rhino conservation efforts and ensuring a sustainable future for these magnificent creatures. Whilst on this

programme, you will also get involved in a number of other activities, including snare sweeps, invasive species removal, habitat surveys, litter picks and environmental education.

What we are looking for Everyone at the research centre is passionate about the work they do, so we are looking for someone who is excited to make an active contribution to the project. We are open to your background, what is important is that you are committed to the cause, willing to put in the hours, and dedicated to making a real difference. There are a few qualities that make you more relevant for the programme: prior experience with the project's field techniques or working in a southern African environment; being reliable, responsible and motivated to work hard; enjoy working as part of a team and be happy to operate under the authority of field research coordinators, whilst being competent working unsupervised; happy to work long and unsociable hours. Some activities involve long days of walking in hot and cold weather, so if you are applying for these activities, you must be prepared and able to cope with such conditions.

At WildComm, we pride ourselves on conducting serious and impactful research aimed at furthering conservation efforts. While we value camaraderie, social interaction, and an occasional beer under the stars, it's important to emphasize that our primary focus is on the research and conservation work at hand. If you're seeking a party atmosphere or are primarily interested in leisure activities, we encourage you to explore other volunteer opportunities that align more closely with those preferences. Our projects require dedication, focus, and a genuine passion for wildlife conservation, and we welcome volunteers who share these values and are committed to making a positive impact on the environment.

Volunteers are welcome to join us for any duration, but longer stays are encouraged for a more enriching experience.

Salary and costs This volunteer role does not come with a salary, but it offers invaluable exposure to a variety of research techniques, making it an integral stepping stone for your next role. To participate in the project, volunteers are required to cover their own expenses. While we aspire to offer these opportunities for free or provide compensation for volunteers' hard work, our organization operates without external funding. Therefore, volunteers' contributions not only cover their own expenses but also enable this vital research to proceed. Volunteers are responsible for arranging their own airfare, as well as obtaining medical and travel insurance.

Accommodation is on a working farm, consisting of a communal area and kitchen stocked with crockery, cut-

lery, fridges, freezers, a stove and drinkable tap water. Rooms are shared (2-4 people) and include linens, hot showers and flushing toilets.

How to apply Immediate positions are available with ongoing opportunities. To apply or for further information, please contact applications@wildcomm.org. When applying, kindly include your CV along with a brief statement outlining your interest in joining our team, relevant experience or transferable skills, and how you envision contributing to our research centre. PLEASE ALSO STATE WHERE YOU SAW THIS ADVERT. Applications will be accepted until all positions are filled.

If you're ready to roll up your sleeves and join us in the fight to save

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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>

ESEB Outreach Initiative Fund Mar15

****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 2024** and should be submitted by email to the ESEB office (Email: office@eseb.org; Subject: Outreach 2024). We will ac-

knowledge 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 Gonzlez, Chair
Delphine Sicard
Rhonda R. Snook
Hildegard Uecker
Karine Van Doninck

European Society for Evolutionary Biology Email: office@eseb.org
Homepage: ese.org

ESEB Office <office@eseb.org>

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FieldWorkVolunteers PyreneesSnapdragon

Dear all,

we are happy to announce the opening of our Call for Volunteers for Snapdragon fieldwork campaign 2024 in the Spanish Pyrenees. This is a great opportunity for anyone looking to obtain experience in fieldwork related to evolutionary biology, speciation and plant ecology.

We are looking for volunteers between the 27th of May and the 1st of August. We ask people to commit to staying for 3 weeks. Applicants must be located in Europe or UK.

Interested people, please send (i) CV, (ii) a short explanation about why you are interested, and (iii) dates availability to: snapdragon.field.volunteer@gmail.com, before 20th March. Please send any questions to the same address. More information: <https://bartongroup.pages.ista.ac.at/> Louise FOUQUEAU <Louise.FOUQUEAU@ist.ac.at>

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Houston Texas PostBaccResearch STEGG

Please share with recent college graduates and students graduating in May 2024:

The early application deadline for the STEGG-INTERACT Research and Mentoring for Post-Baccalaureates (RaMP) Program is February 15! Applications will be accepted until March 31, but full consideration is only guaranteed for applications received by the early deadline of Feb 15.

<https://uh.edu/nsm/stegg-interact/> The Southeast Texas Evolutionary Genetics and Genomics Integrative Research and Collaborative Training (STEGG-INTERACT) program offers recent college graduates a collaborative mentored research experience on the evolutionary genetics of biological interactions, and training in technical and professional skills.

During this year-long program, participants will engage in collaborative research projects addressing a variety of questions about the evolution of biological interactions, including interactions among molecules within cells, between sexes within populations, and across species in communities. Training will include fundamental concepts in evolutionary biology and genetics, skills in bioinformatics, and professional skills such as scientific communication.

The program is hosted by the University of Houston and participants' research experiences will be based at UH, Rice University, or Texas A&M University.

Apply here: <https://etap.nsf.gov/award/3961/-opportunity/4688> Richard Meisel (he/him/his) Associate Professor Department of Biology and Biochemistry University of Houston

3455 Cullen Blvd Houston, TX 77204-5001

Office: 453F SR2 Lab: 428/433 SR2

rpmeisel@uh.edu bchs.uh.edu/~rpmeisel 1-713-743-3607

“Meisel, Richard P” <rpmeisel@central.uh.edu>

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IntlSocEvolMed DiscountedMemberFeesUntilFeb15

The International Society for Evolution, Medicine and Public Health is offering a 20% discount on membership fees until Valentine's Day. Use the code "ISEMPH2024" at checkout

Your membership entitles you to substantial additional discounts on meeting registration fees.

Registration and abstract submission are now open for the 9th Annual Meeting of the *International Society for Evolution, Medicine and Public Health* meeting August 6-9th at the University of Durham, UK. All who are interested in how evolutionary biology can improve the understanding, prevention and treatment of disease are welcome. Full information at <https://isemph.org/-ISEMPH-2024> The program includes keynote talks from Jane Buikstra (Arizona State University) speaking about One Palaeopathology (One Health in the past), Ruth Feldman (Reichman University) on developmental social neuroscience, Daniel Nettle (Newcastle University and CNRS, Paris) on how an evolutionary perspective can help us understand overweight and obesity, and Jamaji Nwanaji-Enwerem (Emory University) on environmental exposures over the life course. Plenary talks are also scheduled from the winners of the Omenn Prize and the Williams Prize (TBA).

Additional talks, posters and discussions will bring us up to date on the latest developments and inspire conversations at breaks, breakfast, lunches, and dinners that are included in the registration fees. A pre-meeting on Evolutionary Psychiatry will be of special interest.

Abstract submission is open until March 1 for talks, posters, and symposia. Student presentations are welcome, and students who submit abstracts will automatically be considered for one of the limited travel stipends (\$500 or \$1000, depending on location).

The venue is the UNESCO World Heritage Site of Durham City with its magnificent mediaeval Cathedral and quaint market town centre. The Banquet will be at the Durham Castle. Newcastle airport is close by. Group excursions to local sites at subsidized rates offer additional fun and time to talk. Childcare for all ages up to 16 is available at subsidized rates.

See the meeting website for full information. <https://isemph.org/ISEMPH-2024> For ques-

tions about abstracts and the program, contact isemph2024@gmail.com For questions about local arrangements, contact isemph2024hosts@durham.ac.uk For other questions, contact Manager@isemph.org

We hope to see you in Durham!

Randolph Nesse <nesse@umich.edu>

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LouisianaStateU PostbaccTrainingPrg Mar3

Few days to apply to the Postbaccalaureate Research Program:

Join the Louisiana Graduate Network in Applied Evolution (LAGNiAppE)

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

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

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

Should you have any further inquiries, feel free to reach out to us at evo_lagniappe@lsu.edu.

LAGNiAppE Network <evo_lagniappe@lsu.edu>

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LoyolaU Chicago NSF REU SticklebackPaleontology

An 8 week NSF-funded Research Experience for Undergraduates.

Join a field crew outside of Reno Nevada for 2.5 weeks to collect paleontological samples of threespine stickleback fish. 5.5 weeks before and after field work in the lab processing samples for fish morphology and paleoecology. Candidates must be available the entire 8 weeks of full time research.

Duties and Responsibilities: The assistant will be responsible for (i) assisting in field-based paleontological excavation of Miocene diatomite fossils deposits with Dr. Stuart, project postdoc Dr. Jacopo Cerasoni and project collaborator Dr. Mike Bell; (ii) organizing and cataloguing the excavated fossil collection in the field and the lab; (iii) preparing, photographing, and collecting data from fossil specimens; (iv) preparing paleoecological samples and collecting data from those samples. **Minimum Qualifications:** Applicants must be pursuing a bachelor's degree in biology, ecology, paleobiology, paleontology, anthropology museum science, or a related field. Applicants should be comfortable and excited about working in and carrying out physical activities in extreme environmental conditions such as desert and/or high temperature environments.

Preferred Qualifications: Experience excavating paleontological or archaeological contexts is welcome. Possession of the fine motor coordination, judgement, and patience needed to excavate and process a large number of fossils is needed.

We will cover travel to and from the field site, to and from Loyola University Chicago, dinners and lodging in the field, and partially support subsistence in Chicago.

Students from underrepresented groups in sciences, from small colleges, and first generation college students are encouraged to apply. We believe in safe and equitable research experiences in both lab and field.

Application deadline: April 1, 2024

Please email ystuart@luc.edu with your application, with your name, and "Nevada Fossil REU" in the email subject line.

Include with the email: copies of unofficial transcripts contact information for two academic references

CV/resume a one page statement that describes your interest in the REU position, academic goals, and any previous research experience

Questions about the program and/or application process should be addressed to the project PI, Dr. Yoel Stuart, at ystuart@luc.edu

"Stuart, Yoel" <ystuart@luc.edu>

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MolecularEcologyPrize CallForNominations

We are soliciting nominations for the annual Molecular Ecology Prize.

The field of molecular ecology is young and inherently interdisciplinary. As a consequence, research in molecular ecology is not currently represented by a single scientific society, so there is no body that actively promotes the discipline or recognizes its pioneers. The editorial board of the journal *Molecular Ecology* therefore created the Molecular Ecology Prize in order to fill this void, and recognize significant contributions to this area of research. The prize selection committee is independent of the journal and its editorial board.

The prize will go to an outstanding scientist who has made significant contributions to molecular ecology. These contributions would mostly be scientific, but should also include other kinds of contributions that were crucial to the development of the field. The previous winners are: Godfrey Hewitt, John Avise, Pierre Taberlet, Harry Smith, Terry Burke, Josephine Pemberton, Deborah Charlesworth, Craig Moritz, Laurent Excoffier, Johanna Schmitt, Fred Allendorf, Louis Bernatchez, Nancy Moran, Robin Waples, Scott Edwards, Victoria Sork, Fuwen Wei, Kerstin Johannesson, and Uma Ramakrishnan.

Please send your nomination with a short supporting statement (no more than 250 words; longer submissions will not be accepted) and the candidate's CV directly to Rowan Barrett (rowan.barrett@mcgill.ca) by Friday, April 12, 2024. Organized campaigns to submit multiple nominations for the same person are not necessary and can be counterproductive. Also, note that nominations from previous years do not roll over. Thus, previous nominations should be re-submitted with an updated supporting statement and CV.

With thanks on behalf of the Molecular Ecology Prize Selection Committee

rowan.barrett@mcgill.ca

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca)

OmennPrize BestArticleEvolMed Apr15Deadline

Nominations for the \$5000 Gilbert S. Omenn Prize are open until April 15, 2024. The Prize is awarded by the International Society for Evolution, Medicine, and Public Health <https://isemph.org> for the best article published in the previous calendar year on a topic related to evolution in the context of medicine and public health. The first author is invited, expenses paid, to present a plenary talk at the Society's annual meeting. This year's meeting will be August 6-9 in Durham, UK. Abstract submissions are welcome until March 1, 2024.

Full details at <https://isemph.org/Omenn-Prize>

The easy to complete nomination form is here <https://airtable.com/appdYBBUrtoCaFfYn/-shrRwFXDIjU0RsXBD> –Details are below–

Nominations are open until April 15, 2024 for the best article in any peer-reviewed journal on a topic related to evolution in the context of medicine and public health with a final publication date in 2023. The winning article is announced in May and the prize is awarded to the first author of the article at the ISEMPH annual meeting. The prize includes travel, lodging, and an invitation to present at talk at the ISEMPH annual meeting.

All peer-reviewed articles that use evolutionary principles to advance understanding of a disease or disease process are eligible. The prize committee will give priority to articles with implications for human health, but many basic science or theoretical articles have such implications. Authors are encouraged to nominate their own articles, but nominations of articles by others are also welcome.

Please use this form to submit your nomination. <https://airtable.com/appdYBBUrtoCaFfYn/-shrRwFXDIjU0RsXBD> The prize is made possible by a generous donation by Gilbert Omenn, M.D., PhD. Director of the Center for Computational Medicine and Bioinformatics at the University of Michigan where he

is a Professor of Internal Medicine, Human Genetics, and Public Health. Dr. Omenn served as Executive Vice President for Medical Affairs as Chief Executive Officer of the University of Michigan Health System from 1997-2002. He is a past president of the American Association for the Advancement of Science and a member of the Institute of Medicine of the National Academy of Sciences.

Randolph Nesse <nesse@umich.edu>

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PodcastFromHeredity TeachingResource

Dear colleagues,

I am a postdoc researcher and the producer of the podcast for the Genetics Society journal Heredity - each month I speak to the authors of a new Heredity paper and we discuss their work at a roughly undergraduate level.

As many of you will be involved in teaching evolution, I wanted to highlight the podcast as a teaching / supporting resource for courses such as population genetics, molecular ecology and conservation genetics.

For example, a recent episode featured pop-gen heavy-hitter Robin Waples giving a beautifully clear explanation of the concept of effective population size and its importance to evolutionary questions. <https://shorturl.at/btwDT> If appropriate, please recommend the podcast to your students. It's available on the Heredity website (<https://www.nature.com/hdy/podcast>) and all the usual podcast places - Apple podcasts, Spotify, etc.

Any questions or queries, you can contact me at hereditypodcast.gen@gmail.com

Very best wishes, Mike Pointer

“Michael Pointer (BIO - Staff)” <M.Pointer@uea.ac.uk>

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SSE funding Congressional Visits Grants

The Society for the Study of Evolution (SSE) is offering funding for members to attend the American Institute of Biological Sciences (AIBS) 2024 Congressional Visits Day, which will take place in Washington, DC and includes a free half-day training session on April 16 and meetings with lawmakers on April 17. There is also the option to also attend the Communications Boot Camp for Scientists on April 15-16.

SSE members at all career stages who are interested in communicating the importance of federal investments in scientific research and education to lawmakers are encouraged to apply. Funding can be used to cover the cost of the Communications Boot Camp and contribute toward travel and lodging.

Learn more about the AIBS Congressional Visits here: <https://www.aibs.org/news/2023/231205-congressional-visits-day> Learn more about SSE membership and how to join here: <https://bit.ly/-SSEMembership> Check your current SSE membership status here: <https://payments.evolutionarysociety.org/-joinsse/> To apply, complete this form by Monday, February 19, 2024: https://docs.google.com/forms/d/e/1FAIpQLSeY2LCupsUONyiB70PibxXHeYswQRZmZ7t1kUuOgLGwHZjPQ/viewform?usp=sf_link *Kati Moore*she/her *Communications Manager* *Society for the Study of Evolution* communications@evolutionarysociety.org www.evolutionarysociety.org SSE Communications <communications@evolutionarysociety.org>

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Teaching Phylogeny

Hello colleagues,

I will be teaching a 1-unit short course (12 teaching hours) focusing on the basics of molecular phylogeny. It is a 2-level (BIOL 2XXX) undergraduate course targeting biology / life science major students.

I am looking for some teaching resources including slides, animations, etc, to enrich my existing materials. I would very much appreciate it if you could share appropriate resources with me.

Many thanks in advance for your help.

Best wishes, Haiwei

Haiwei Luo Microbial Evolution and Ecology lab Associate Professor, School of Life Sciences The Chinese University of Hong Kong Shatin, Hong Kong SAR

hluo2006@gmail.com

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UExeter Field Assistants Insect Sociality

Insect Sociality Fieldwork Assistants required in Surrey, UK:

We seek several fieldwork assistants from June until mid-end of August 2024. The project will be to investigate how helping may have evolved using a wild digger wasp population (*Ammophila*).

The assistants will be working as part of a team including a Postdoctoral researcher at a nature reserve just outside of Guildford, Surrey, UK. *Ammophila* is a non-social wasp which does not sting humans, and lays each egg in a separate burrow containing a paralysed caterpillar. The female wasp will provide further food items as her larvae grow, making the species an ideal system for testing how helping may have evolved. A couple of our previous papers on this system are: (1) Field & Brace (2004). Pre-social benefits of extended parental care. *Nature* 428: 650-652; (2) Field et al. (2023). Brood parasites that care: alternative nesting tactics in a subsocial wasp. *American Naturalist* 202(5): 655-666.

The fieldwork involves: observing and manipulating provisioning behaviour, handling and marking wasps, setting up video cameras, uploading video footage and data entry. In warm weather, this involves long days in the field! Because the work involves recording colour marks on individual animals, the job would not be suitable for someone who is colour-blind. See our research group website for more information about the kind of work we do (http://biosciences.exeter.ac.uk/~staff/index.php?web_id=Jeremy_Field).

Experience of conducting fieldwork (especially with insects) and a degree (or working towards a degree) in a Behaviour/Evolution/Ecology-related topic are desired. A driving licence valid in the UK, and flexibility around the start and end date of the assistant position is desirable. The successful applicants must have enthusiasm for fieldwork, and will obtain excellent experience of cutting-edge research.

Shared accommodation in Surrey (UK) is provided, but assistants are required to pay for their own food/personal expenses. Assistants receive $i_{\frac{1}{2}}125$ per

week to help cover personal costs.

Please contact Lucy Winder l.winder2@exeter.ac.uk (cc Jeremy Field j.p.field@exeter.ac.uk) to discuss these positions further, attaching a CV.

Jeremy Field Professor of Evolutionary Biology Centre for Ecology and Conservation University of Exeter Penryn Campus Cornwall TR10 9EZ UK

“Field, Jeremy” <J.P.Field@exeter.ac.uk>

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PostDocs

AarhusU HumanSelectionSexDifferences	83	StockholmU InsectSpermDiversity	98
AdamMickiewiczU Poland SexualSelectionInHumans	83	StockholmU LifeHistoryFunctionalGenomics	99
BrynMawrC Philadelphia GeneticDiversity	84	SwitzerlandWSL EvolutionaryQuantGeneticsTrees	100
ColoradoU Boulder ClimateAdaptation	85	Tokyo TheoreticalBiology	101
Copenhagen DeepLearningEvolEpi	85	UCalifornia Berkeley GeneDriveModeling	101
Eawag ETHZurich EvolutionaryEcologyGenetics ..	87	UCalifornia Berkeley PlantEvolution	102
Eawag Switzerland AquaticEcoEvolution	87	UCalifornia Irvine EvolutionaryEpigenomics	103
Fairbanks Alaska IceBindingProteinEvolution	88	UDebreceen EvolutionaryEcology	103
GeorgeWashingtonU FishPhylogenomics	89	ULodz CrustaceanEvolution	104
Houston EvolutionaryGenomics	89	UManchester Symbiosis	105
IndianaU ConvergentEvo	90	UMassachusetts Amherst MarineConservationGenomics	106
Krakov Poland BeetleGenetics	90	UMerced California ComparativePopulationGenomics	106
MacquarieU Sydney FlowerColourEvolGenomics ...	91	UMilano EvolutionaryGenomicsLizards	107
MemorialU Canada BiogeographyPhylogenetics ...	92	UNebraska Lincoln PopluationBiology	107
Montpellier CropBiodiversity 12mnth	93	USheffield AnimalColourationAI	108
Montpellier EvolutionaryMicrobiologyGenomics ...	94	USheffield EvolutionaryGenomics	109
OhioStateU PhenotypicPlasticity	95	USheffield Two ClimateAdaptation	109
OkinawaInstSciTech Macroevolution	95	UToronto OpsinProteinEvolution	109
OklahomaStateU InfectiousDiseaseDynamics	96	UZurich AntibodyEvolution	110
Philadelphia Evolution TimetreeMethodsBiodiversity	97		
Singapore AvianDiversification	97		

Postdoc: How intra-genomic conflicts in spermatogenesis shape the genetic basis of autism Despite recent reports suggesting an outsize influence of the X chromosome on autism and its sex differences, we still know very little about its genetic basis. Recent research from our group has revealed uniquely strong natural selection on the human X chromosome, best explained by selfish X-genes promoting their natural selection in spermatogenesis by killing sperm cells that carry the Y chromosome. Such selfish advantage in spermatogenesis easily trumps modest deleterious effects such gene variants may have on brain development. A pilot study of the X chromosome reveals that neuron genes also expressed in spermatogenesis indeed are enriched for association with autism and that gene classes with sex-specific brain expression associate with autism sex bias. We invite applicants to shape and carry out this postdoc project. If you would like to investigate how and why the X chromosome contributes to autism and its sex-differences, then we invite you to make this project yours. The two-year postdoc position begins July 1, 2024, or as soon as possible.

Job description The project includes a GWAS on the X chromosome based on the iPSYCH autism cohorts and analyses partitioning heritability by sex and candidate gene classes but will otherwise be led and shaped by the successful applicant.

Your profile We are looking for an open-minded researcher with a collaborative spirit. The applicant should hold a Ph.D. in bioinformatics, computational biology, population genetics, or similar. Any experience with GWAS, heritability analysis, polygenic risk scores, statistics, or population genetic modelling is highly relevant.

Who we are You will collaborate with world-leading researchers on autism (Jakob Grove), genetic association (Doug Speed), and evolutionary genomics of sex chromosomes (Kasper Munch, PI). Please refer to munch-group.org and birc.au.dk for further information about us and the Bioinformatics Research Centre, and mbg.au.dk for information about the department.

What we offer The Bioinformatics Research Centre provides:

The opportunity to shape a ground-breaking research project providing new perspectives on the sex differences in autism. Access to computational infrastructure (14,000 cores), and the large Danish iPSYCH autism cohorts. An international, interdisciplinary, and open-minded research environment where ideas float freely. A uniquely Danish workplace characterized by equality, openness, trust, and a healthy work-life relationship. A highly competitive salary.

Place of work and area of employment Bioinformatics Research Centre, Dept. of Molecular Biology and Genetics, Aarhus University, Universitetsbyen 81, 8000 Aarhus.

Contact information For further information, please feel free to contact: Associate professor, Kasper Munch, +45 3013 8342, kaspermunch@birc.au.dk

Deadline Applications must be received no later than April 1, 2024

Kasper Munch <kaspermunch@birc.au.dk>

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AdamMickiewiczU Poland SexualSelectionInHumans

Position: Post-doc

One Post-doc position is now available to work on mechanisms and evolution of post-copulatory mate choice in humans, in a new research group in the Institute of Human Biology and Evolution at Adam Mickiewicz University in Poznań, Poland.

The position is part of a project funded by Polish National Science Centre: Condition-dependent mechanisms of gamete-level mate choice (postmating sexual selection) in humans. The project will test the role of immunocompetence of a male in cryptic female choice on the gamete level, in order to shed a light on post copulatory sexual selection in humans. The main aim of the project is to investigate how the male condition, measured as the ability to recognize pathogens, affects sperm performance, in the post-mating context in humans.

The post-doc will use methods from experimental and evolutionary biology, molecular biology and computational genomics (phenotypic assays, wet-lab, MinION Nanopore sequencing). We seek a colleague with solid knowledge in the principles of molecular and evolutionary biology, genomics/transcriptomics, statistics, keen to work in a team and highly self-motivated. Applicant with a Ph.D (less than 7 years after graduation or close to completion) in biology, biotechnology or related fields, and proven record of productivity and publications in high-impact journals and expertise in (human) molecular genetics, molecular and cellular biology. There is opportunity to learn new skills by participation in dedicated training courses on subjects related to the project

and short research visits to institutions involved with the project.

The position is full-time and available for 36 months starting from October 2024. Salary: 9500/month (after taxes ~6500PLN) You will join a recently started research group led by Aleksandra ukasiewicz.

The application should include i.e. professional CV including scientific achievements, list of publications, cover letter summarizing previous work experience and future interests, contact information for two professional references, and be addressed to dr Aleksandra ukasiewicz, a.lukasiewicz@amu.edu.pl

Please include in your offer: "I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation)."

Application deadline: 31.05.2024

Candidates will be selected through an open competition, the competition will be open until a suitable candidate is found who meets all the requirements

Any questions? Do not hesitate to contact via email: a.lukasiewicz@amu.edu.pl

Aleksandra ukasiewicz <aleks.lukasiewicz@gmail.com>

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BrynMawrC Philadelphia GeneticDiversity

Eco-Evo Postdoctoral Position at Bryn Mawr College

The Mozdzer Lab in the Department of Biology at Bryn Mawr College is searching for a postdoctoral scholar. The postdoctoral scientist will work on a collaborative "Bridging Ecology and Evolution" National Science Foundation (NSF) project with colleagues at the Smithsonian Environmental Research Center and the University of Tennessee at Knoxville. Our collaborative project aims to link genetic diversity and genomic variation to measures of carbon cycling. The collaborative project will leverage an ongoing global change experiment at the

Smithsonian Global Change Research Wetland and a de novo quantitative genetic study of trait variation at Bryn Mawr College.

The Mozdzer Lab seeks a postdoctoral scholar with expertise in biogeochemistry, functional plant ecology, and/or computational modeling to complement our research program. The postdoctoral scholar will work as part of a team to measure biogeochemical processes and will design experiments allowing our group to bridge the fields of ecosystem ecology with evolutionary ecology. The team will include undergraduate students and a full-time research assistant in both the field and in the laboratory. The position requires week-long travel to our field sites, monthly from May to November with the successful candidate conducting fieldwork campaigns in Maryland.

Term: The initial appointment for this grant funded position is for one year and may be renewed for one additional year.

Minimum Qualifications:

- Completed Ph.D.
- Expertise in biogeochemistry, functional plant ecology, and/or computational modeling
- Must be authorized to work in the U.S.
- Must possess a valid U.S. driver's license with a clean driving record.
- Must be able to travel for business.

Preferred Qualifications:

- Expertise in Ecology, Evolutionary Biology, or relevant field.
- Experience in measuring greenhouse gas fluxes, biogeochemical processes, plant functional traits and/or willingness to learn.
- Experience in evolutionary processes, ecosystem modelling, and/or willingness to learn.
- Data management and analysis in R, SAS, or other programming language.
- Research background with strong writing ability.

Physical Requirements:

Must be capable of rigorous outdoor activity (lifting approx. 50 pounds, bending or kneeling for long periods of time, carrying heavy equipment, moving large potted plants, and the capability to walk through waist-high marine waters, tidal wetland habitat, and/or forests on narrow boardwalks to access field sites).

Application Process:

Interested candidates should submit via Interfolio, <http://apply.interfolio.com/140428>: 1) a cover letter identifying availability for the position and addressing all the required and preferred qualifications, 2) a full curriculum vitae, and 3) three letters of recommendation. The review of applications will begin immediately and continue until the position is filled.

About the Institution

Bryn Mawr College is a private liberal arts institution located in the Philadelphia, Pennsylvania region. The College serves a population of approximately 1,700 students at both the undergraduate and graduate levels. It has a long tradition of educational excellence and offers a dynamic and challenging work environment. The campus is easily reached by public transportation as well as most major highways. Bryn Mawr College is an equal opportunity employer that believes that diversity strengthens our community; candidates from underrepresented groups are especially encouraged to apply

Thomas Mozdzer <tmozdzer@brynmawr.edu>

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ColoradoU Boulder ClimateAdaptation

The Kane Lab in the EBIO department at CU Boulder is seeking a postdoc to join us as part of an NSF-funded project to investigate the importance of life history timing for climate adaptation. The position will be based in Nolan Kane's lab in EBIO, working closely with co-PIs Sarah Elmendorf (CU Boulder), Brent Hulke (USDA) and Colin Khoury (San Diego Botanic Garden). The postdoctoral researcher will investigate how climate and phenology interact to determine plant performance over 5 decades and sites across 9 states. Leveraging thousands of whole genomes and a well-characterized flowering time pathway in sunflowers to we aim to elucidate the genetic underpinnings of climate responses in this increasingly important crop and its related wild species. Together with the PIs, graduate students, and other members of the team we will explore these and other rich datasets to test hypotheses of how genotype-phenotype-fitness relationships change over space and time.

The postdoc's primary duties will involve data analysis, writing papers for publication, and presenting results

in national and international meetings. There will also be opportunities to assist with experimental design and data collection for ongoing and future experiments in the field, lab and greenhouse, mentor students, and engage in outreach activities. Candidates should have a strong publication record, experience analyzing large datasets in R, strong statistical skills, and be able to work both independently and as part of a team. Preference will be given to researchers with curiosity that drives them to dig deeply into large datasets to solve ecological, evolutionary and environmental problems. For this postdoctoral position, no prior genomic experience is expected; we will be advertising for a second, genomics-focused postdoc to join this collaboration later this year. The findings will rapidly be applied towards improving crop sustainability in the face of climate change, using genomic selection and other sophisticated breeding methods in public and private breeding programs. Thus, this postdoc represents an opportunity to study climate change ecology and evolution from both a basic and applied perspective.

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. Please apply by March 15. Feel free to contact any of the PIs for further information. <https://jobs.colorado.edu/jobs/JobDetail/?jobId=54506> nolan.kane@colorado.edu

Nolan Coburn Kane <nolan.kane@colorado.edu>

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Copenhagen DeepLearningEvolEpi

Postdoc in Deep Learning at The Department of Public Health - University of Copenhagen

<https://jobportal.ku.dk/videnskabelige-stillinger/-?show1027> We are looking for a highly motivated and dynamic postdoc for a 3-year position, who is a specialist in Deep Learning to commence 15 April 2024 or soon thereafter. We are seeking a highly motivated candidate with a track record of using, implementing, and developing deep learning approaches to questions in evolutionary biology and epidemiology. We are looking for a candidate who has experience in, but not

restricted to: implementing recurrent, convolutional, generative, and self-supervised models. The ideal candidate in this post will have a balance of theoretical and applied experience with deep learning models.

Our research The Section of Epidemiology actively contributes to advancing theoretical epidemiology, with a particular emphasis on causal inference, complexity, and life course epidemiology. Our research explores the dynamic interactions among genes, the environment, and health throughout the life course and across generations. As a Post Doc, you would become a member of The Computational and Mathematical Global Health Group, co led by Professor Samir Bhatt and Associate Professor David Duchene located at the Section of Epidemiology at University of Copenhagen. We are a world leading group that focuses on a diverse range of topics. We research at the interface between computer science, mathematics, biology, and epidemiology. The post doc position is in close collaboration with the machine learning and global health network mlgh.net. The position will be highly collaborative and crosscut/support multiple large projects in the group.

Your job We are looking for a specialist in deep learning. The ideal candidate for this job would have had extensive experience implementing and developing deep learning models, and possibly experience in evolutionary biology. Your day-to-day tasks would be leading applications of deep learning models to a range of problems in the group including public health, biology, and economics. You will be in charge of implementing new architectures and developing models in tandem with other researchers in the group. The ideal candidate would already have extensive experience implementing models in common architectures such as Pytorch or Jax.

Profile We are looking for a highly motivated and enthusiastic scientist with the following competencies and experience:

Essential experience and skills: - You have a PhD in Deep learning or Machine learning - You are highly experienced in applying, developing and implementing a range of Deep Learning models - You have an active interest in machine learning and statistics - Proficient communication skills and ability to work in teams - Excellent English skills written and spoken

Desirable experience and skills: - Experience/knowledge of Python - Experience/knowledge of Pytorch/Jax/Tensorflow - Experience/knowledge in statistics and learning theory - Publications or preprints in Deep Learning/Machine Learning

Place of employment The place of employment is at the Section of Epidemiology, University of Copenhagen. We

offer creative and stimulating working conditions in a dynamic and international research environment.

Terms of employment The average weekly working hours are 37 hours per week.

The position is a fixed-term position limited to a period of 3 years. The starting date is 15 April 2024 or thereafter.

Salary, pension and other conditions of employment are set in accordance with the Agreement between the Ministry of Taxation and AC (Danish Confederation of Professional Associations) or other relevant organisation. Currently, the monthly salary starts at 36,400 DKK/approx. 4,800 EUR (October 2023 level). Depending on qualifications, a supplement may be negotiated. The employer will pay an additional 17.1 % to your pension fund.

Foreign and Danish applicants may be eligible for tax reductions, if they hold a PhD degree and have not lived in Denmark the last 10 years.

The position is covered by the Job Structure for Academic Staff at Universities 2020.

Questions For further information please contact Professor Samir Bhatt bhattsamir@gmail.com samir.bhatt@sund.ku.dk or Associate Professor David Duchene david.duchene@sund.ku.dk

Foreign applicants may find this link useful: www.ism.ku.dk (International Staff Mobility).

Application procedure Your online application must be submitted in English by clicking 'Apply now' below. Furthermore, your application must include the following documents/attachments - all in PDF format:

- Motivated letter of application (max. one page).
- CV incl. education, work/research experience, language skills and

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Eawag ETHZurich
Evolutionary Ecology Genetics

Postdoc Position in Evolutionary Ecology and Genetics

A postdoc position is available in Christoph Vorburger's lab at Eawag and ETH Zürich, Switzerland. Our research is concerned with the evolutionary ecology of host-parasite interactions in terrestrial and freshwater systems, with a particular interest in the role of symbiont-conferred resistance in insect host-parasitoid coevolution. This position is funded by the Swiss National Science Foundation (SNSF) for a project that - among other goals - aims to elucidate the genomic basis for the strong specificity observed in symbiont-mediated defense against parasitoid wasps in aphids. In addition to that, the position offers ample freedom to develop independent research within the scope of our group. The incoming candidate is also expected to take over some responsibility in lab management and in the instruction of students, especially in molecular techniques.

The ideal candidate will have a keen interest in evolutionary ecology and genetics, strong quantitative and communication skills evidenced by scholarly publications, and excellent molecular laboratory skills with experience in generating and analyzing next-generation sequencing data. A PhD is required.

The position will be linked to the Department of Aquatic Ecology at Eawag in Dübendorf, close to Zurich. We offer a stimulating and collaborative scientific environment with excellent local infrastructure and und access to state-of-the-art core facilities such as the Genetic Diversity Centre at ETH Zurich or the Functional Genomics Center Zurich. The appointment is for a maximum of 3 years and would ideally start in spring/early summer 2024.

Eawag is a modern employer and offers an excellent working environment where staff can contribute their strengths, experience and ways of thinking. We promote cultural and gender equality and are committed to staff diversity and inclusion. The compatibility of career and family is of central importance to us. For more information about Eawag and our work conditions please consult www.eawag.ch and www.eawag.ch/en/aboutus/working/employment. Applications must be submitted by 24 February 2024 and should include an application letter describing your scientific interests and work experience and their relevance to this position, as well as your CV, including a list of publications and the contact information for 2-3 academic references.

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

We look forward to receiving your application. Please send it through the webpage below, where you will find a link to the online application form. Any other way of applying will not be considered.

<https://apply.refine.ch/673277/1127/pub/1/-index.html> *** Christoph Vorburger Eawag, Swiss Federal Institute of Aquatic Science and Technology & Institute of Integrative Biology, ETH Zürich Äberlandstrasse 133 8600 Dübendorf Switzerland

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

“Vorburger, Christoph” <Christoph.Vorburger@eawag.ch>
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Eawag Switzerland AquaticEcoEvolution

The 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.refine.ch/673277/1136/pub/1/-index.html> The deadline for applications is 11 April 2024. 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/organisation/> <https://www.eawag.ch/en/department/umik/organisation/> <https://www.eawag.ch/en/department/siam/organisation/> Interested candidates have the opportunity to define their own research project at Eawag. Feel free to contact me or any of Eawag's other department heads or group leaders to discuss possibilities.

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

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

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Fairbanks Alaska IceBindingProteinEvolution

Evolution of Ice-Binding Proteins in Intertidal Invertebrates

Position: Postdoctoral Fellow

Department: Department of Fisheries, College of Fisheries and Ocean Sciences

Location: Fairbanks, Alaska

Job Summary and Key Responsibilities:

This is a two-year, National Science Foundation funded postdoctoral position to investigate the evolution of ice-binding proteins in intertidal invertebrates (Echinodermata). The overall objective of the project is to describe the extent to which IBP production exists and is environmentally correlated across select lineages of intertidal invertebrates that inhabit the Arctic and subarctic. This includes generating genomic and transcriptomic datasets of several species of intertidal invertebrates. The project includes fieldwork, labwork, comparative genomic analysis, coordinating specimen collection across the United States, and engaging with graduate and undergraduate students, faculty, community members, and other postdocs at UAF.

The Glass Lab (www.theglasslab.org) is based in Fairbanks, Alaska USA in the Department of Fisheries at the University of Alaska Fairbanks, College of Fisheries and Ocean Sciences <https://www.uaf.edu/cfos/>. The mission of The Glass Lab is to integrate genomic tools, an evolutionary perspective, and Indigenous science to sustainability support marine organisms for Alaskan coastal communities. The Glass Lab values a culture of inclusion and embraces a wide range of perspective and experiences. We support intersectional diversity and work-life balance.

Duties will include but not be limited to:

- Coordinating fieldwork, labwork and specimen collection
- Engaging with local collaborators and Indigenous partners
- WGS and transcriptome library preparation
- Bioinformatics and pipeline development

-Mentoring undergraduate and graduate students

-Engaging in departmental and lab events and meetings

-Collaborating in writing research proposals and publications

Qualifications/Requirements of Position:

The postdoctoral fellow must have a PhD in fields such as Ecology and Evolutionary Biology, Genomics, or Marine Biology. Experience with the generation and analysis of genomic and/or transcriptomic datasets, including bioinformatics pipelines is required.

Position Details

The position is ideally located on the UAF campus in Fairbanks, Alaska. A flexible work schedule may be considered upon discussion and in accordance with UA regulations. This is a full-time exempt position complete with a competitive salary and full employee benefits. UA provides a generous compensation package that includes retirement options, annual leave, 12 paid holidays per year, tuition waivers for employees and family members, and affordable medical, dental and vision care coverage.

Salary: \$67,198 full-time, including benefits. This is a two-year funded position.

Open date: January 28th, 2024

Close date: March 16th, 2024 (open until filled)

Please apply here: <https://careers.alaska.edu/en-us/job/527554/postdoctoral-researcher-college-of-fisheries-and-ocean-sciences> Jessica R. Glass, PhD Assistant Professor, Fisheries she/her

University of Alaska Fairbanks College of Fisheries and Ocean Sciences Department of Fisheries 2150 Koyukuk Drive Fairbanks, Alaska 99775 jessica.glass@alaska.edu +1 907 474 6524 www.theglasslab.org Jessica Glass <jrglass@alaska.edu>

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GeorgeWashingtonU FishPhylogenomics

Postdoctoral position in fish phylogenomics. See full posting here: <https://www.gwu.jobs/postings/108775>

The postdoctoral associate will conduct research in phylogenetics and evolutionary biology of fishes and work together with the PI (Orti) and graduate students.

Required qualifications include a completed PhD and expertise in molecular systematics, comparative phylogenetic methods, genomics, and ichthyology.

Postdocs will design, organize and conduct specialized and advanced experiments using established scientific protocols, troubleshoot and design new protocols, summarize findings and publish results in research journals, under the general supervision of a faculty member. Duties include (i) Research project development, including experimental design and preparation of grant proposals (ii) Compilation, generation, and curation of genomic and trait data for selected fish species. (iii) Bioinformatic analysis of genomic data to infer phylogenies and perform comparative analyses on trait to test hypotheses. (iv) Preparation and submission of manuscripts to scientific journals. (v) Training of graduate students in the lab on the above-mentioned duties. (vi) Delivering guest lectures or short workshops for relevant courses offered at GW in the disciplines involved in the research program.

Send inquiries to gorti@gwu.edu

Guillermo Orti Louis Weintraub Professor & Chair Dept of Biological Sciences The George Washington University 2029 G Street NW, Suite 302 Washington DC, 20052

Tel 202-994-7065 gorti@gwu.edu <https://gwu-edu.zoom.us/j/5362314975> Editor-in-Chief, Molecular Phylogenetics and Evolution <<https://www.sciencedirect.com/journal/molecular-phylogenetics-and-evolution>>

Guillermo Orti <gorti@email.gwu.edu>

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Houston Evolutionary Genomics

Postdoctoral Position in the Department of Biology & Biochemistry at the University of Houston

A postdoctoral position is available in Dr. Richard Meisel's laboratory in the Department of Biology and Biochemistry, University of Houston, TX, USA. Applicants with research interests in evolutionary genetics and genomics are encouraged to apply.

The Meisel lab uses genetic and genomic approaches to study evolutionary processes in a diversity of fly models. Ongoing research projects include understanding how and why sex determination systems and sex chromo-

somes diverge across species; characterizing the genetic basis of intersexual phenotypic variation; and determining the causes of evolutionary divergence in immune systems. To address these questions, the lab combines organismal experimentation, genomic data analysis, genetic manipulation, bioinformatics, and computational modeling.

This postdoctoral position requires a Ph.D. and relevant academic experience. The successful applicant will have a background in population genetics, molecular ecology, molecular genetics, evolutionary genomics, bioinformatics, and/or entomology. Responsibilities will include contributing to ongoing research in the Meisel lab, developing independent research projects, and mentoring graduate/undergraduate students. Interested applicants should apply by emailing Richard Meisel (rpmeisel@uh.edu) a curriculum vitae; cover letter describing research interests and experience; and names and contact information for two references. Applications will be reviewed as they are received and continue until the position is filled.

The policy of the University of Houston System and its universities is to ensure equal opportunity in all its educational programs and activities, and all terms and conditions of employment without regard to age, race, color, disability, religion, national origin, ethnicity, military status, genetic information, sex (including gender and pregnancy), sexual orientation, gender identity or status, or gender expression, except where such a distinction is required by law.

Richard Meisel (he/him/his) Associate Professor Department of Biology and Biochemistry University of Houston

3455 Cullen Blvd Houston, TX 77204-5001

Office: 453F SR2 Lab: 428/433 SR2

rpmeisel@uh.edu bchs.uh.edu/~rpmeisel 1-713-743-3607

rpmeisel@Central.UH.EDU

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IndianaU ConvergentEvo

Position summary: The Darragh Lab at Indiana University, Bloomington is recruiting a postdoctoral researcher. We are looking for a colleague to study the evolution of terpene synthesis in insects. This position will focus

on discovery and functional validation of biosynthetic pathways in insects to further our understanding of convergent evolution of terpene synthesis. The candidate will be expected to design and carry out experiments, analyze results, write manuscripts, and contribute to weekly lab meetings. Projects can be developed based on personal interests.

Basic qualifications: A PhD in Biology or similar is required at the time of appointment. Previous research experience in evolutionary biology, biochemistry, or molecular biology is also required. Preferably the candidate will have experience with protein expression and enzyme assays. The candidate is expected to work independently as well as part of a team.

Salary commensurate with years of experience. To apply, please submit a letter of interest, your CV and contact information for three references electronically to <https://indiana.peopleadmin.com/postings/22720>. The best consideration date is 4/1/24 with a negotiable projected start date of 8/1/24. Inquiries about the position can be directed to Kathy Darragh at kdarrag@iu.edu.

Indiana University is an equal employment and affirmative action employer and a provider of ADA services. All qualified applicants will receive consideration for employment based on individual qualifications. Indiana University prohibits discrimination based on age, ethnicity, color, race, religion, sex, sexual orientation, gender identity or expression, genetic information, marital status, national origin, disability status or protected veteran status.

The department of Biology is a large, unified department with strong undergraduate degrees, nationally-ranked graduate programs, and world-class research spanning the breadth of biological questions and experimental systems - from ecosystems to microbiology and developmental biology, from evolution to cell biology, from molecular biology to systems biology, bioinformatics, and genomics. It is always an exciting time for Biology - enormous advances in global genome analysis coupled with unprecedented developments in interdisciplinary research have made the 21st century the Century of Biology. For more information about the department, you can find it here: About: Department of Biology: Indiana University Bloomington.

The College of Arts and Sciences is committed to building and supporting a diverse, inclusive, and equitable community of students and scholars.

“Darragh, Kathy” <kdarrag@iu.edu>

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Krakow Poland BeetleGenetics

Post-doc position in a project implemented at the Department of Molecular Biodiversity of the Institute of Systematics and Evolution of Animals Polish Academy of Sciences in Krakow, funded by the National Science Centre, Poland (project Opus 22, no. UMO-2021/43/B/NZ9/00991) titled “Population genetics of saproxylic beetle assemblages in protected and managed forests”.

Information about the project: <http://www.isez.pan.krakow.pl/projekty-badawcze/kajtoch-NCN-2021-43-B-NZ9-00991-en.pdf> department: <http://www.isez.pan.krakow.pl/en/department-molecular-biodiversity.html> PI and head of the department: <http://www.isez.pan.krakow.pl/en-employees/lkajtoch.html> <https://sites.google.com/site/lukaszkaajtoch/home> Requirements: - PhD in Biological Sciences or a related science; - proven track record in peer-reviewed scientific publishing; - experience in bioinformatics handling with data obtained from next-generation sequencing; - experience in performing statistics in the R environment; - fluency in English.

Background in genotyping with the use of ddRADseq method and familiarity with GIS techniques will be welcome.

Tasks and responsibilities for the position: We are looking for a candidate for the reader position. The responsibilities of the hired individual will include: - Carrying out research tasks as part of the Opus 22 project, - Participation in planned laboratory works, - Analysis and interpretation of genetic data, - Involvement in preparing manuscripts based on the project's implementation, - Active participation in scientific conferences presenting research results, - Engagement in organizational and outreach activities.

We can offer: - remuneration in accordance with the regulations of the National Science Center (Opus22) - 10.000 PLN gross / month. - full-time employment for 2.5 years, - research realized in collaboration with molecular and ecological labs, - research visits in foreign institutions and participation in international conferences, - scientific support as well as the possibility of qualifications improvement and professional development, - access to research infrastructure. - social benefits

List of documents to be submitted by the candidates

and other details: <https://www2.ncn.gov.pl/baza-ofert/-?akcja=wyswietl&id=223746> Applications for the competition, along with the documents mentioned in the announcement, should be sent by e-mail to: rekurtacja@isez.pan.krakow.pl by 01.03.2024.

The winner of the competition will be announced by 08.03.2024.

Planned start date: April 2024

dr hab. ukasz Kajtoch Department of Molecular Biodiversity Institute of Systematics and Evolution of Animals, Polish Academy of Sciences Slawkowska 17 St., 31-016 Krakow, Poland

+48 (12) 422-80-00 ext. 29 lukasz.kajtoch@gmail.com; kajtoch@isez.pan.krakow.pl <https://sites.google.com/site/lukaszkaajtoch> <http://orcid.org/0000-0001-7345-9400> #StandWithUkraine

ukasz Kajtoch <lukasz.kajtoch@gmail.com>

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MacquarieU Sydney FlowerColourEvolGenomics

3-year Postdoctoral Fellowship in Evolutionary Genomics

Applied Biosciences, Macquarie University, Sydney, Australia The Field lab at Macquarie University is recruiting a postdoctoral fellow to join our project on the iconic group of plants known as kangaroo paws (*Anigozanthos*) of Western Australia.

The goal of the flower power' project is to unlock the genetic and biochemical potential of flower colour in the iconic group which display remarkable flower colour variation among and within species. The successful candidate will contribute to a broad project using genome assemblies, whole genome re-sequencing and phylogenomic analyses, genetic mapping and transcriptomics of flower colour genes and pathways, and population and evolutionary genomic analyses of flower colour variation in hybrid zones in nature. We will identify independent sources of colour variation across the entire group of kangaroo paw species to understand how this remarkable colour diversity is generated and maintained. This research will be important for improving programs for conservation and develop novel colours for horticulture. The successful candidate will join a diverse

team of people working on kangaroo paws including researchers from Macquarie University, Kings Park and University of Western Australia in Perth. The broader group works on a range of plant systems (e.g. snapdragons, Eucalypts) and research questions related to speciation, adaptation, genetic rescue and conservation of threatened species and plant-pollinator interactions. We utilise an integrated approach using bioinformatics, population and evolutionary genetics, field ecology and glasshouse experiments, molecular biology, biochemistry and mathematical modelling.

Macquarie University is situated in the northern part of Sydney. The city is a diverse and vibrant place to live, a beautiful harbour city with vast entertainment options and outdoor activities on your doorstep. Gold sandy beaches and vast National Parks circle the city (e.g. Blue Mountains, Ku-ring-gai Chase national parks) situated in a global biodiversity hotspot are easily accessible by train.

For more details on selection criteria see the link below.

Enquiries: A/Professor David Field, [david.field\[@\]mq.edu.au](mailto:david.field[@]mq.edu.au) To Apply: <https://www.timeshighereducation.com/unijobs/listing/-363404/postdoctoral-research-fellow-applied-biosciences/> Closing Date: 25th February 2024

David Field <david.field@mq.edu.au>

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MemorialU Canada BiogeographyPhylogenetics

Postdoc position in Caribbean Biogeography at Memorial University of Newfoundland

We are searching for a postdoc to be part of a new project entitled "Subduction Triggered Terrestrial Evolution in the Caribbean" (SUBUTTEC) funded by the French Agence National de la Recherche and the Canadian Natural Sciences and Engineering Research Council. The project aims at combining biological and geological data to understand how changes in landmasses and seas induced the evolution of plants and animals using the Caribbean islands as a case study. We are particularly interested in understanding the evolution of life in archipelagoes located along subduction zones. This project brings together an international team of

academics mostly from France but also from Germany, the Netherlands, Canada, and Mexico. The researchers are grouped into four working packages (WP) with the following objectives: WP1 will conduct phylogenetic and biogeographic analyses of Caribbean plants and animals. WP2 will conduct geological mapping, date emersion surfaces, quantify erosion rates and surface uplift to provide a chronology for land emergence and drowning during the last 30 million years. WP3 will conduct numerical modeling of the vertical motions that control the land-sea mask to unravel the triggers and amplitude of the emersion and drowning events. The biological and geological results will be merged in WP4 testing alternative hypotheses of organisms' dispersal and evolution. The postdoc will be integrated into WP1 and WP4 and will work under the supervision of Dr. Julissa Roncal at Memorial University of Newfoundland in Canada.

- Salary range: 50,000-60,000 CAD/year depending on previous experience plus 20% benefits - Start date and location: September 2024 in St. John's, Newfoundland, Canada - Position duration: 2 years with a possibility of a 1-year extension

PREFERRED QUALIFICATIONS - Ph.D. degree completed - Demonstrated knowledge on phylogenetics/genomics and/or biogeographic modeling - Excellent writing skills. - Some experience programming in languages such as Perl, Python, or R - Experience managing large datasets

SUMMARY OF MAJOR DUTIES - Using published dated phylogenies, the postdoc will conduct a meta-analysis of plant colonization and speciation events in the Caribbean through time. Will work in close collaboration with a PhD student and another postdoc. We are interested in seeing patterns partitioned by dispersal mode, plant habit (trees versus shrubs), and inter-island migrations. - Lead a case study of the Antillean species in the genus *Sloanea* (Elaeocarpaceae). There are 9 native *Sloanea* species in the Greater and Lesser Antilles for which we would like to reconstruct their history of colonization, and linking with land emergence and drowning findings from WP2. Fieldwork in the Caribbean and/or continental America will be necessary. Other case studies of interest to the postdoc could be addressed as long as they are within Caribbean biogeography. - Assist with the development of GEN3SIS eco-evolutionary models within WP4, which will predict the evolution of the biosphere upon prescribed paleogeographic and paleoclimatic reconstructions. - Co-supervision of PhD, MSc and undergraduate students. - Write research reports for NSERC and peer-reviewed publications in collaboration with supervisor and other partners. - Dissemination of research to scientists, the general public,

government, land managers, etc through presentations or lay publications.

APPLICATION INSTRUCTIONS - Please send an academic CV, a statement of research interests and career goals, three references (contact information only) and a sample peer-reviewed publication into a single pdf to Dr. Julissa Roncal: jroncal@mun.ca. Only postdocs who are short listed will be contacted for a remote interview. Applications will be reviewed continuously until the position is filled. More information on the lab here. The department of Biology at Memorial University has 29 faculty members and over 100 graduate students. Memorial University is Atlantic Canada's largest university offering a multicultural environment. Individuals from traditionally underrepresented groups in science (e.g. women, people of colour, people with disabilities, 2SLGBTQ+) are encouraged to apply.

Julissa Roncal, Ph.D. (she/her) Associate Professor and Curator of the Ayre Herbarium Department of Biology Memorial University of Newfoundland 45 Arctic Avenue St. John's, NL, A1C 5S7, Canada Office CSF4331, phone (709) 864 2241 Ayre herbarium (709) 864 6233 Mobile: (709) 351 6771 <http://julissaroncal.wordpress.com/> We acknowledge that the lands on which Memorial University's campuses are situated are in the traditional territories of diverse Indigenous groups, and we acknowledge with respect the diverse histories and

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Montpellier CropBiodiversity 12mth

We are seeking a Post-doctoral researcher in Data Sciences - CEFE/IRD, Montpellier, France Position opened from April 2024 for 12 months

Working environment :

The successful candidate will be based at the CNRS in Montpellier, within the Centre d'Ecologie Fonctionnelle et Evolutive (UMR CEFE) in Montpellier, France. He or she will also work closely with IRD's UMR DIADE and will be supervised by an interdisciplinary team

based in Montpellier. The CEFÉ is currently the largest research center in ecology and evolutionary biology in France, providing a stimulating working environment and a wealth of logistical and technical support. The proposed position is part of the project “SAGHAS” (Sowing AGrobiobiodiversity to HARvest Sustainability), which is funded by a program “ERC Tremplin” by the University of Montpellier.

Missions

The SAGHAS project aims to assess how the crop biodiversity present in agricultural systems in the South today can meet expectations in terms of agronomic, environmental and social roles, and how the multidimensional space defined by these different roles could be optimized to promote adaptation to future environmental conditions. Drawing on a database of existing agronomic, ecological, genetic, environmental and social information on cultivated plants worldwide, the researcher recruited will be tasked with

- study existing avenues for exploring and aggregating the heterogeneous data in the database into indexes.
- develop ideas on how best to integrate these data to meet the project’s objectives.
- produce a summary of existing indices, their advantages and shortcomings in terms of the project’s objectives and identify possible needs for completing the initial database.

Activities

- bibliographical research on indices and, more generally, on the mathematical manipulation of data to synthesize genetic, agronomic, ecological and social information. The research will initially focus on agrobiobiodiversity and will then be extended to themes that will enable us to consider the integration of these data at an interdisciplinary level.
- mathematical construction adapted to the objectives of the project, based on the results of the bibliographical research, and application to an existing database.
- identification of data gaps to be filled
- drafting of publications

Profile

The successful candidate will have held a PhD degree for less than 3 years.

- Expertise in mathematical data manipulation, index creation, or other synthetic representation of information.
- Computer skills, data processing, database interrogation and manipulation.

- Knowledge of agricultural systems
- Interdisciplinary interest, curiosity and open-mindedness
- Rigorous work ethic, excellent organizational skills, ability to synthesize information
- Ability to work independently and as part of a team
- Writing skills in French and English

Desired level of education: PhD

Desired experience: less than 3 years after thesis

How to apply

CV and cover letter should be sent to Cécile Berthouly: [cecile.berthouly@ird.fr,] Delphine Renard : [delphine.renard@cefe.cnrs.fr], Adeline Barnaud : [adeline.barnaud@ird.fr] and Anne-Céline Thuillet : [anne-celine.thuillet@ird.fr]

Job reference to be included in your cover letter: 2024-R0105

Applications close on 15/03/2024 at 23:59 but will be examined on an ongoing basis.

Contacts for job information :

Cécile Berthouly : [cecile.berthouly@ird.fr] Delphine Renard : [delphine.renard@cefe.cnrs.fr] Adeline Barnaud : [adeline.barnaud@ird.fr] Anne-Céline Thuillet : [anne-celine.thuillet@ird.fr]

anne-celine.thuillet@ird.fr

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Montpellier Evolutionary Microbiology Genomics

Dear all,

A 2-years post-doc position is available in Montpellier to work on the genomic and evolutionary aspects of the propagation in the environment of antibiotic resistances of public health concern.

The postdoc will work in the context of the WATERISK project, funded by the ExposUM Institute (University of Montpellier). The aim of this project is to identify genomic and phenotypic characteristics determining the enrichment of emerging antimicrobial resistance genes of public health concern in hydric environments. WA-

TERISK focuses on emerging resistances to β -lactams in Gram-negative bacteria and is designed at the local scale (watershed of a coastal river and hospitals from the Montpellier area). This project is composed of three main parts: (1) building a resistant isolates collection, (2) obtaining and analysing the genomes of the isolates of the collection and (3) characterizing the phenotype and evolutionary potential of associations of plasmid and strains from the collection.

The postdoc will be in charge of the second part and will conduct the genome sequencing analysis of a collection of 500 Enterobacteriaceae isolates collected at Montpellier University Hospitals and at different points along the coastal river. The goal of this analysis will be to identify the association of antibiotic resistance genes with strains, species, mobile genetic elements and other resistance genes across environments to better understand the circulation of antibiotic resistance genes. The postdoc will also participate in the characterization of the evolutionary potential of strain-plasmid associations by designing and implementing an experimental evolution approach and contributing to the phenotypic and genomic characterization of the evolved lines.

The postdoc will be based at the Centre for Functional and Evolutionary Ecology (CEFE) in Montpellier, in the Evolutionary Genetics and Ecology team and will work in close interaction with the Physe team (Hydric Pathogens Health and Environment) at the Hydroscience institute in Montpellier. The CEFE is the largest French laboratory for ecology and evolution. It includes common services in molecular biology and chemistry, as well as 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. HydroSciences Montpellier laboratory brings together disciplinary skills to study, quantify and forecast the impacts of climate and human activities on water resources in Mediterranean and tropical regions. Among the main themes studied is the dynamics of emerging contaminants and the health risks and adaptation mechanisms of waterborne pathogenic bacteria.

Candidates are expected to hold a PhD in evolutionary biology or microbiology and to have confirmed skills in genomics. Expertise in experimental evolution will be a plus but is not mandatory.

The position is for 2 years; the expected starting date is April 1st 2024. Net monthly salary around 2100 euros.

To apply, please send a CV, a cover letter and the contact for two references to Stéphanie Bedhomme (stephanie.bedhomme@cefe.cnrs.fr) and Estelle Bilak (es-

telle.bilak@umontpellier.fr) before February 12th, 2024.

Stéphanie Bedhomme

CR CNRS Equipe Génétique et Ecologie Evolutive Centre d'Ecologie Fonctionnelle et Evolutive Montpellier

GONZALEZ BRAVO Ignacio <ignacio.bravo@cnrs.fr>

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OhioStateU PhenotypicPlasticity

The Ohio State University- Phenotypic plasticity

The Hellmann Lab at The Ohio State University, College of Arts and Sciences, Department of Evolution Ecology and Organismal Biology seeks a Post Doctoral Scholar to contribute to a project investigating how developmental and transgenerational plasticity shapes individual responses to both natural and human-induced environmental change, using fish as model organisms. The successful candidate will have significant flexibility in determining the specific direction of the project; please see the lab website (hellmannlab.com) for information about current research. The Post Doctoral Scholar should take advantage of current fish colonies (threespined stickleback, mangrove rivulus) at OSU, but developing a strong field, genomic, or theoretical component would be welcome.

The College of Arts and Sciences is the largest college and the academic heart of the university. The College hosts 81 majors. With 38 departments, 20+ world-class research centers, and more than 2,000 faculty and staff members, students have the unique opportunity to study with the best artists, scholars, and scientists in their field. The College values diversity and offers a supportive, open, and inclusive community.

The start date for this position is flexible but may be as early as June 1, 2024. The pay range for this job profile is \$56,000-60,000 annually. The offer for this position will fall within this range based on internal equity, unit's available budget, and the candidate's qualifications. Funding is for up to two years.

Applicants will please submit the following: (1) A cover letter describing relevant experience, research interests, and future goals. (2) A curriculum vitae. (3) Contact information (telephone number and email address) for three professional references. Please feel free to contact the PI (Jennifer Hellmann- Hellmann.13@osu.edu) with

any questions. Applications received by March 18, 2024 will be prioritized.

https://osu.wd1.myworkdayjobs.com/OSUCareers/-job/Columbus-Campus/Post-Doctoral-Scholar_R98802-1

Jennifer Hellmann Assistant Professor Department of Evolution, Ecology, and Organismal Biology The Ohio State University hellmannlab.com Pronouns: she/her/hers

“Hellmann, Jennifer” <hellmann.13@osu.edu>

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OkinawaInstSciTech Macroevolution

Okinawa Institute of Science and Technology Postdoctoral Scholar or Staff Scientist in Macroevolution and/or Paleontology

A postdoctoral scholar (PhD 5 years) or staff scientist position (PhD 5 years) is available in the Macroevolution Unit at OIST (groups.oist.jp/mmu). We seek a highly motivated and creative researcher with a background in macroevolution (e.g. phylogenetics, evolutionary processes, organismal biology, and/or paleontology) and a deep interest in reconstructing the evolution of vertebrate life and biodiversity dynamics (extinction, diversification, innovation), and a desire to develop their own projects. The researcher will pursue novel work involving data and methods such as phylogenetic comparative methods, trait analysis, and/or fossil record occurrences.

This position is open to both paleontologists and researchers working on living groups, models, and molecular data, with a preference for those interested in fishes or other aquatic life. Exact projects will be developed through discussions with PI Sallan based on the skills, interests, and ideas of the selected researcher.

Report To: Prof. Lauren Sallan, Macroevolution Unit.

Responsibilities:

Develop and lead innovative projects related to the interests of the Macroevolution Unit. Publish results in high-quality journals. Present at national and international conferences.

Qualifications:

(Required)

- PhD in Ecology and Evolutionary Biology, Paleontol-

ogy, Organismal Biology or related field with dissertation focused on macroevolutionary or biodiversity questions. - Experience and interest in macroevolutionary phenomena (e.g. diversification dynamics, evolutionary rates, trait origins, global events). - Willingness to develop knowledge about areas and clades of interest to the unit if outside of past experience (e.g. fishes). - Willingness to learn new methods as needed. - Willingness to travel to museum collections as needed. - Willingness to collaborate with other relevant labs at OIST and outside. - Good spoken and written English skills, including for scientific terms and concepts. Japanese is not required but classes are provided to OIST employees and their families.

(Preferred)

- Familiarity with the evolution and ecology of fishes, as documented by prior work. - Proficiency in fossil work, phylogenetic comparative methods, and/or obtaining and processing molecular data as needed. - Track record of work demonstrating a broad interest in macroevolution.

Start Date: Negotiable from March 1, 2024 to mid-2025. Promising senior graduate students and postdocs with time remaining in their current positions are encouraged to apply.

Term & Working hours: Full-time. A postdoctoral position (PhD5 years) is initially for one year and can be renewed to 2 more years based on performance and mutual agreement. A staff scientist position (PhD5 years) is initially for one year and can be extended further based on performance and mutual agreement.

Working hours:

Discretionary working hours

Compensation & Benefits: Compensation in accordance with the OIST Employee Compensation Regulations

Benefits:

Relocation, housing and commuting allowances Annual paid leave and summer holidays Health insurance (Private School Mutual Aid <http://www.shigakukyosai.jp/>) Welfare pension insurance (kousei-nenkin) Worker's accident compensation insurance (roudousha-saigai-hoshou-hoken)

Contact Address:

If you have any question, please contact: lauren.sallan@oist.jp

Application Due Date: Applications will continue to be screened until the position is filled.

Submission Documents: Cover letter including state-

ment of research interests

CV including the publication list Contact information for 3 recommendation letters (will be contacted after first pass)

Apply At:

<https://www.oist.jp/careers/postdoctoral-scholar-or-staff-scientist-macroevolution-unit> Lauren Sallan <Lauren.Sallan@oist.jp>

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OklahomaStateU InfectiousDiseaseDynamics

Post doctoral position in statistical modelling of infectious disease dynamics

The Stephens lab at Oklahoma State University (Stillwater OK) has a post-doctoral position to create statistical models of large scale infectious disease dynamics available. The position will involve comparing and contrasting the influence of eco-environmental factors (e.g., temperature, rainfall, mammalian host diversity) and socioeconomic factors (e.g., human population density, poverty, health care infrastructure) on infectious disease outbreak risk and outcomes. Specific projects include variation in realized case numbers of COVID-19 and other respiratory disease in Oklahoma, and outbreaks of filoviruses (Ebola and Marburg) in sub-Saharan Africa.

I am looking for individuals with proficiency in R, statistical modelling (especially ensemble machine learning methods like boosted regression trees), and GIS. The starting salary will be \$58,000, which is enough to live quite well here in Stillwater. You can find the formal job description here:

<https://patrickstephens21.wixsite.com/stephenslab/-general-clean> Please don't hesitate to reach out to me if you have questions.

To apply, please submit a cover letter addressing why you are interested in the position and think you are a good fit, a CV, one representative publication, and contact info (phone and email) for three references to Patrick Stephens (patrick.stephens@okstate.edu).

Please include your name and the name of the position (i.e., "Statistical Modelling of Infectious Disease Dynamics: LASTNAME") in the e-mail header.

Patrick R Stephens Assistant Professor Department of Integrative Biology 420 Life Sciences West Oklahoma State University Stillwater, OK 74078

"Stephens, Patrick" <patrick.stephens@okstate.edu>

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Philadelphia Evolution TimetreeMethodsBiodiversity

Postdoctoral Position in Methods Development and Evolutionary Analysis of Species in the Timetree of Life (extended deadline)

A postdoctoral position is available at Temple University in Philadelphia for conducting research on the tree of life and its timescale. This is part of the TimeTree project and database of S. Blair Hedges (Center for Biodiversity), and Sudhir Kumar (iGEM, Institute for Genomics and Evolutionary Medicine). The research involves a diversity of topics in molecular phylogenetics and systematics.

A PhD in a relevant field and fluency in English is required. We seek an individual with training in evolutionary biology and phylogenetics with skills in bioinformatics and computational biology. Programming knowledge is required. An ideal candidate will have a general knowledge of taxonomy and experience with building molecular phylogenies. They will have an opportunity to develop, investigate, and apply traditional and machine learning methods to build the tree of life. This research and development position is intimately associated with the TimeTree database and its development.

The Center for Biodiversity and iGEM are both located within Temple's Science, Education, and Research Center (SERC) on the main campus. They are affiliated with the Department of Biology and the College of Science and Technology. Temple University is located in the heart of historic Philadelphia and is home to many academic and research institutions as well as numerous cultural attractions.

Interested persons should send an e-mail to—postdoc@timetree.org, stating their interest in this position, and attach a curriculum vitae that also contains contact information for three references. Review of applications will begin on 20 March 2024 and continue

until the position is filled. The anticipated start date, negotiable, is 1 July 2024. Temple University is an equal opportunity, equal access, affirmative action employer committed to achieving a diverse community (AA, EOE, m/f/d/v).

TimeTree <https://www.timetree.org> Center for Biodiversity <http://www.biodiversitycenter.org>
iGEM <https://igem.temple.edu/> Hedges Lab <http://www.hedgeslab.org> Kumar Lab <https://www.kumarlab.net> â€

“S. Blair Hedges” <sbh@temple.edu>

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Singapore AvianDiversification

Postdoc Position

The Avian Evolution Lab at the National University of Singapore is looking to fill a full-time Postdoctoral position as part of a long-term project funded by an investigatorship looking into evolutionary mechanisms generating species diversity in Australasia

Starting Date: The position is available now; delayed starting dates may be negotiable.

Project Outline: The project aims at uncovering significant cryptic biodiversity in some of the least-known parts of Australasia (primarily eastern Indonesia and PNG) as well as the evolutionary processes that have generated this species diversity; the project’s main model organism is birds, with an option to expand into other terrestrial animal classes

Requirements:

* The applicant should be comfortable in population-genomic and phylogenomic analysis, preferably with exposure to approaches in quantifying and testing for gene flow * Interest and prior knowledge in bird species diversity would be a bonus, although it is not absolutely required * Prior experience in tropical fieldwork (especially mistnetting) is not an absolute requirement, but a big bonus

Gross salary: approximately Singapore \$5750 = US\$ 4300 / month (not inclusive of potential bonus payments)

Enquiries and applications should be sent to dbrsfe@nus.edu.sg

Main interviews will take place in mid- to late February 2024, and will continue until the position has been filled

Frank Rheindt Associate Professor National University of Singapore Department of Biological Sciences <https://avianevonus.com/> dbrsfe@nus.edu.sg

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StockholmU InsectSpermDiversity

Closing Date: February 15 Postdoc in Sperm Evolutionary/Cell Biology at the Department of Zoology, Stockholm University

Closing date: February 15 2024

Postdoctoral scholarship (tax-free stipend, 100%) for a period of 2 years (start date as soon as possible, but slightly flexible for the right candidate). The Snook lab at the University of Stockholm, Department of Zoology, is looking for an ambitious, problem solving postdoc, interested in the evolution of sperm - the most diverse cell type - spermatogenesis, fertilization, microscopy, and collaboration across different disciplines.

Project description The successful candidate will be part of an interdisciplinary research project, based at Stockholm University in the lab of Professor Rhonda Snook. The aim of the work is “The evolution of sperm cell shape and motion” in insects funded by the Human Frontiers Science Program with research partners at the University of Lincoln (UK) and Tulane University (USA). We will build on recent developments in transgenic techniques to label sperm, manufacture of custom microfluidic devices, computational biophysical models, and understanding of how coevolution between the female reproductive tract and sperm shape effect fertilization success, to establish a phylogenetic perspective of the evolution of sperm shape diversity.

The overall aim for the project in the Snook lab will involve: 1) analyses addressing evolutionary diversity in sperm shape in insects, 2) assessing how intraspecific variation in sperm length impacts sperm movement and function within the female reproductive tract using molecular biology techniques and advanced microscopy, including micro- CT, fluroescent and other microscopy approaches, and 3) testing the relationship between sperm length and sperm motility in the closed system of the female reproductive tract by using experimental analogues (e.g., microfluidic devices), combined with

microscopy and biophysical modelling (the latter lead by consortium partners).

The appointee is expected to take full responsibility for the practical coordination of experiments, and take the leadership role in the collection and analysis of data generated, as well as writing of manuscripts. The appointee will participate in weekly Snook lab meetings and in monthly consortium meetings, and present results at national and international conferences. The appointee will interact with and mentor graduate and undergraduate students in the lab.

Qualification requirements Salary is provided as a tax-free scholarship stipend of 27500 SEK per month. Thus, only non-Swedish citizens with a doctoral degree or similar equivalent acquired in a country other than Sweden can apply. The applicant must have a PhD in evolutionary biology, zoology or cell biology, or a similar subject from a non-Swedish accredited college/university. The degree must have been completed at latest before the employment decision is made, but no more than three years before the closing date. An older degree may be acceptable under special circumstances. Special reasons refer to sick leave, parental leave, elected positions in trade unions, service in the total defense, or other similar circumstances as well as clinical attachment or service/assignments relevant to the subject area.

Assessment criteria and terms Overall, this is an innovative and collaborative opportunity combining diverse fields to answer outstanding questions about the evolution of the most diverse cell type. For work in the Snook lab, a strong candidate will have a background in evolutionary biology, zoology or cell biology. Ideally, the candidate will have experience in microscopy and a demonstrated track record of problem solving. Prior training in insect rearing desirable. There will be training opportunities for all aspects of the project, including but not limited to microCT scanning and microfluidic device development. There is scope to develop parallel projects for an organized candidate. Given the interdisciplinary and collaborative nature of the funding, applicants should be good communicators and happy to work in an international team, spread across three countries, as well as work independently to solve challenging technical problems. Working language is English.

The position is a full-time stipend for two years. As this is a stipend, the position is considered educational and the PI is the educational host. Start date as soon as possible.

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

Contact Further information about the position can be obtained from Professor Rhonda Snook (host and project leader), email: rhonda.snook@zoologi.su.se

Application Apply for the position at rhonda.snook@zoologi.su.se Applications will be evaluated as they come in so apply as early as possible, up through the deadline. It is the responsibility of 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>

StockholmU LifeHistoryFunctionalGenomics

Postdoctoral Fellow in life history functional genomics at the Department of Zoology Stockholm University

Closing date: 1 March 2024.

Ref. No. SU FV-0444-24

The Department of Zoology is one of the oldest departments at Stockholm University with a long history of basic and applied research of animal species, from arthropods to large mammals. The Department is a dynamic research environment and consists of 16 permanent Professor positions and c. 100 staff including c. 40 PhD students. The Department has a long history of research on butterflies and their evolutionary history.

Project description The position will be located within the lab of Christopher W. Wheat, focused upon understanding the genetic basis of an alternative reproductive strategy via our ability to manipulate it using CRISPR/Cas9. Our goals are to identify what causes apparent allocation tradeoffs between genetically determined alternative strategies, whether a single or multiple genetic loci cause the strategies, and what determines the relative frequency of the strategies across species. This position is part of a well funded research grant from the Swedish Research Council. This work builds upon the findings from Tunström et al. “Evidence for a Single, Ancient Origin of a Genus-Wide Alternative Life History Strategy.” *Science Advances* (2023) <https://doi.org/10.1126/sciadv.abq3713> . Main responsibilities Butterfly field collections and field work in Spain (Europe), lab rearing of butterflies (butterfly husbandry), followed by design and use of CRISPR/Cas9 gene knock-

outs, followed by detailed life history investigation of resource allocation and assessment of chromosomal dynamics upon gene expression. The ability to write up the findings for high impact publications.

Qualification requirements Postdoctoral positions are appointed primarily for purposes of research. Applicants are expected to hold a Swedish doctoral degree or an equivalent degree from another country.

Assessment criteria The degree must have been completed at latest before the employment decision is made, but no more than three years before the closing date. An older degree may be acceptable under special circumstances. Special reasons refer to sick leave, parental leave, elected positions in trade unions, service in the total defense, or other similar circumstances as well as clinical attachment or service/assignments relevant to the subject area. Please email Chris if you have questions about this.

In the appointment process, special attention will be given to research skills and documentation of publications. We are looking for someone experienced several of the following fields: butterfly husbandry, use of CRISPR/Cas9, measurements of life-history, use of various whole genome sequencing technologies and molecular biology (e.g. DNA/RNA isolation, ATAC-seq, RNA-seq, HiC, histology). A background in computational bioinformatics is also desired. Experience in the field of EvoDevo is also a plus.

Terms of employment The position involves full-time employment for a minimum of two years and a maximum of three years, with the possibility of extension under special circumstances. Start date in Spring - Summer of 2024 or as per agreement.

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

Contact Further information about the position can be obtained from the Professor Christopher W. Wheat, telephone: +46 721 9585, chris.wheat@zoologi.su.se.

Application Apply for the position at chris.wheat@zoologi.su.se Applications will be evaluated as they come in so apply as early as possible, up through the deadline. It is the responsibility of the applicant to ensure that the application is complete in accordance with the instructions in the advertisement, and that it is submitted before the deadline.

Please include the following information in your application as a combined pdf file entitled "XX application for Wheat" where XX is your name. * Cover letter outlining why you are interested in, and what makes you suitable for, the position. No more than 2 pages

and preferably with some reference to the relevant literature. * Your CV - including contact details, degrees and other completed courses, work experience and a list of publications * Contact details for 2-3 references * A copy of your PhD diploma will need to be provided if you are chosen.

Christopher Wheat <chris.wheat@zoologi.su.se>

URL to this page <https://www.su.se/english/about-the-university/work-at-su/available-jobs?rmpage=-job&rmjob=22939&rmlang=UK> Christopher Wheat <chris.wheat@zoologi.su.se>

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SwitzerlandWSL EvolutionaryQuantGeneticsTrees

SwitzerlandWSL.EvolutionaryQuantitativeGeneticsTrees

In the framework of the ERC Consolidator Grant "MyGardenOfTrees", the Evolutionary Genetics Group offers a 2-year PostDoc position in evolutionary quantitative genetics of forest trees starting 1 April 2024 or soon after.

The project How organisms adapt to their environments is the most fundamental question in evolutionary biology and is of utmost importance given current climate change threats. Identifying key traits involved in adaptations and understanding how they interact with each other, and with the environment, is a particularly urgent task for foundation and resource-production species, such as forest trees. Existing experiments, so-called provenance trials, assessing the local suitability of tree species and provenances lack scalability and predictability across the species range, and especially at the species range margins. MyGardenOfTrees proposes a novel participatory science approach. In 2023, an unprecedented "distributed" provenance trial was launched across Europe, where over 300 of voluntary foresters established a small common garden trial (a micro-garden) and evaluate the regeneration and early growth capacity of two forest tree species complexes (*Abies* spp and *Fagus* spp). Observations obtained from these trials will be combined with whole genome sequencing data from the seed source mother trees, and using tools borrowed from plant breeding, used to develop a prediction tool for foresters to help them build forests better adapted to climate change. See more information about the participatory

aspects of the project at www.mygardenoftrees.eu. Role of the future postdoc This postdoc position will focus on addressing the role of gene-environment interactions in seedling performance using a combination of trait data, genomics, and environmental data. Three trait datasets will be available for analysis: one readily available from the pilot trials, another also available from climate chamber trials, and lastly from the main trials, data from the first growing season by the end of 2023. Genomics data will be available for *Fagus* by March 2024 and for *Abies* by the end of 2024. Bioinformatics analysis will be performed in collaboration with two PhD students and with the Genetic Diversity Centre (GDC) of the ETH Zurich. The ultimate goal of the project is to estimate the reaction norms (phenotypic expression) of different populations and lineages across a large range of environments and incorporate this information into a genomic prediction model. The position involves only data analysis and statistical modeling. Some wet lab work is possible, depending on the candidate's interests.

Required background and skills The ideal candidate holds a PhD degree in quantitative genetics/genomics, plant evolutionary biology, and/or forestry. Solid background (or strong motivation to develop skills) in plant/animal breeding methods (mixed-effects models), bioinformatics, and seedling development/physiology are necessary, as well as fluency in R/Python. Knowledge of ASReml-R is a plus. Experience in working with forest trees is not essential but is an advantage. We are looking for an enthusiastic and creative thinker who can make the most of this non-conventional and unprecedented trait and genomic data in hand. Capacity to produce scientific publications in top ranking journals is expected.

Where? The position will be based at WSL in Birmensdorf, close to Zurich, at the footsteps of the Swiss Alps. Zurich is home to a vibrant scientific community with its numerous universities (UZH, ETH) and research institutes (WSL, Eawag, Empa) and is famous for a high quality of living.

How to apply? Follow the apply link at the bottom of the page: <https://apply.refline.ch/273855/1612/pub/-1/index.html> More information: Dr Katalin Csilléry, Group Leader

katalin.csillery(at)wsl.ch +41 44 739 23 43

Katalin Csillery <katalin.csillery@wsl.ch>

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Tokyo TheoreticalBiology

Dear Colleagues,

RIKEN (riken.jp), the largest comprehensive research institute in Japan (located near Tokyo), is currently accepting applications for the FY 2025 Special Postdoctoral Researcher (SPDR) programme. The programme aims to recruit postdoctoral researchers with a demonstrated or expected ability to direct and conduct their own independent research projects.

The SPDR appointments have a start date of April 2025 and are for up to 3 years (provided a positive annual evaluation). The monthly salary for this program was revised as of FY2023 from 487,000 Japanese yen (JPY) to 550,000 JPY. SPRDs also receive an annual research budget of 1,000,000 JPY, and further research funds could be made available based on the interview. SPDRs are also eligible to apply for various other sources of internal and external funding.

For details, see the programme's web page:

<https://www.riken.jp/en/careers/programs/spdr/-career2025/index.html> In particular, I want to draw your attention to:

The Interdisciplinary Theoretical and Mathematical Sciences (iTHEMS) programme, one of the laboratories in RIKEN that can host SPDRs. iTHEMS promotes and undertakes collaborative research across the disciplines of mathematics, theoretical physics, theoretical chemistry, numerical and data sciences, and theoretical biology. You can read about iTHEMS here:

<https://ithems.riken.jp> iTHEMS currently has 11 researchers working in the general field of theoretical biology and biophysics, including researchers working on circadian rhythms, ecology and evolution, genomics, genetics, active/soft matter physics, virophysics, and cancer.

There are approximately 70 positions available in the different laboratories and centres across RIKEN, including iTHEMS. The complete list of groups in RIKEN which can accept SPRD applications can be found here:

https://www.riken.jp/medialibrary/riken/careers/-programs/spdr/career2025/host_lab.pdf If you are interested to hold your SPDR within iTHEMS, please feel free to directly contact any iTHEMS researcher that most closely matches your research focus, or you

can contact me (cbeau@riken.jp) if you have additional questions about an SPDR in iTHEMS in theoretical biology or biophysics in iTHEMS. It is best to establish a connection (email) with a researcher within your centre of interest before submitting an application.

Deadline for registering basic information is 2024, April 9, Tuesday, 5 p.m. (JST)

Deadline for revising or uploading documents and letters of reference is 2024, April 16, Tuesday, 5 p.m. (JST)

Feel free to circulate widely to colleagues and relevant mailing lists.

Sincerely,

Catherine Beauchemin

Deputy Program Director, iTHEMS, RIKEN, Saitama, Japan <https://ithems.riken.jp/en/members/-catherine-beauchemin> Professor, Physics, Toronto Metropolitan University, Toronto, Canada <https://phymbie.physics.ryerson.ca/~cbeau> Thomas Hitchcock <thomas.hitchcock@riken.jp>

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UCalifornia Berkeley GeneDriveModeling

POSTDOC POSITION IN MATHEMATICAL MODELING OF GENE DRIVE SYSTEMS IN MOSQUITO DISEASE VECTORS

The Marshall Lab (<https://www.marshalllab.com/>) at the UC Berkeley School of Public Health is seeking to hire a postdoctoral scholar to work on mathematical and computational aspects of genetics-based strategies to control mosquito vectors of malaria, dengue and other mosquito-borne diseases. The position is initially for two years, with the possibility of extension, and is available early to mid-2024. Salary is commensurate with experience (see salary scale here: https://www.ucop.edu/academic-personnel-programs/_files/2023-24/oct-2023-acad-salary-scales/-t23.pdf), and full benefits are included (see here: <https://c2mb.ajg.com/uc/home/>).

The successful candidate will work on exciting collaborative projects with a consortium of mathematical modelers, molecular biologists, ecologists and epidemiologists throughout the University of California system

and beyond. Molecular biology labs that we collaborate with include the Akbari Lab and Bier Lab at UC San Diego, and the James Lab at UC Irvine. We also work with mosquito ecologists at the Ifakara Health Institute (Tanzania), QIMR Berghofer Medical Research Institute (Australia), and the National Environment Agency (Singapore). We collaborate with the malaria modeling group at Imperial College London (UK), the Malaria Elimination Initiative at UC San Francisco, and with a consortium of gene drive modelers from the Target Malaria and Transmission Zero projects (Dr. Penny Hancock, Dr. Ace North and Dr. Prashanth Selvaraj).

Tasks that we are seeking help with include: * Working with molecular biologists to develop and parameterize models of genetic control systems * Calibrating ecological and epidemiological models to available mosquito and vector-borne disease data * Contributing to development of our modeling framework, the Mosquito Gene Drive Explorer (MGDrive) (<https://marshalllab.github.io/-MGDrive/>) * Providing modeling input to field trial design and risk assessment * Mentoring PhD, Masters and undergraduate students

An ideal candidate will have: * A strong background in applied mathematics, statistics and/or computer science * Experience with ecological/epidemiological modeling, or population genetics/genomics * An interest in mosquitoes and/or mosquito-borne diseases * An interest in mentoring students and promoting diversity, equity and inclusion in research

If you are interested in the position, please send: i) your CV, including a list of publications, ii) PDFs of your two most significant publications/manuscripts to date, iii) the names and email addresses of three potential referees, and iv) a cover letter describing your research interests and motivations for joining our lab to John Marshall at john.marshall@berkeley.edu. Inquiries are also welcome. Additional information about the research in our lab can be found at <https://www.marshalllab.com/>. The position will remain open until filled. The first review date will be March 1st, 2024.

UC Berkeley has large and vibrant public health, ecology and computational biology communities spanning the School of Public Health, the Center for Computational Biology, the Innovative Genomics Institute, the Department of Integrative Biology, the Department of Environmental Science, Policy and Management, and more. UC Berkeley offers competitive salaries, excellent benefits and is an equal opportunity employer. The City of Berkeley and the surrounding San Francisco Bay Area is known for its progressive values, vibrant social and cultural scene, and beautiful surrounding environment.

“Marshall, John M.” <john.marshall@berkeley.edu>

“john.marshall@berkeley.edu”
<john.marshall@berkeley.edu>

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golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

UCalifornia Berkeley PlantEvolution

Postdoctoral position in Spatial Phylogenetics open in the University and Jepson Herbaria at University of California, Berkeley.

We invite applications for a Postdoctoral Scholar to join in a collaborative project newly funded by NSF entitled “Integrating Traits, Phylogenies and Distributional Data to Forecast Risks and Resilience of North American Plants.”

This postdoc will be based primarily at UC Berkeley under the supervision of Brent Mishler, but will also collaborate closely with Shawn Laffan at the University of New South Wales. This postdoc will join a community of three other postdocs supported across the project at collaborating institutions, thus will enjoy a rich array of collaborators & mentors and gain experience with a diverse set of phylogenetic tools.

The primary responsibilities will be to help Mishler and Laffan manage spatial data, carry-out phylodiversity analyses, and develop new methods to be incorporated in the Biodiverse software package.

Read more about the position and apply here:<https://aprecruit.berkeley.edu/JPF04319> Brent D. Mishler Distinguished Professor, Department of Integrative Biology Curator of Bryophytes, University and Jepson Herbaria University of California, Berkeley Mailing address: UNIVERSITY OF CALIFORNIA, BERKELEY UNIVERSITY AND JEPSON HERBARIA 1001 VALLEY LIFESCIENCES BLDG # 2465 BERKELEY, CA 94720-2465 USA Office: 1084 VLSB Phone: (510) 643-0633 [office]

(510) 642-6810 [lab]

FAX: (510) 643-5390 E-mail: bmishler@berkeley.edu
WWW: <http://ucjeps.berkeley.edu/people/mishler.html>
Google Scholar: <http://scholar.google.com/citations?hl=en&user=q-t3rScAAAAJ> Support the Herbaria: <https://ucjeps.berkeley.edu/jeps/friends/donate/> Brent D MISHLER <bmishler@berkeley.edu>

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UCalifornia Irvine EvolutionaryEpigenomics

Postdoctoral Fellow in Evolutionary Epigenomics

The Lee lab at the University of California, Irvine is seeking a motivated postdoctoral fellow to study how transposable elements shape genome function and evolution through epigenetic mechanisms. Toward this end, we combine population genomics, functional genomics, computational biology, and cell biology. The postdoctoral fellow will focus on the epigenetic impacts of transposable elements, and how the associated functional consequences contribute to genome evolution. Candidates will ideally have interests relevant to these topics, and will have opportunities to pursue their own research interests in evolutionary genetics/epigenetics.

The lab is committed to individual mentoring and will provide opportunities for career and skill development. We will also provide resources for attending scientific seminars and conferences. Our lab is part of the Department of Ecology and Evolutionary Biology (<https://ecoevo.bio.uci.edu/>), the Center for Evolutionary Genetics (<https://evogen.bio.uci.edu/>), and the Center for Complex Biological Systems (<https://ccbs.uci.edu/>), which is a vibrant multi-disciplinary center. More information about our research interests can be found at <http://grylee.science/> The successful candidates will have a Ph.D. in the following or related fields: evolutionary genetics, genetics, genomics, epigenetics, cell biology, bioinformatics, or computational biology. We are currently looking for candidates who either (1) have extensive experience with -omics data and strong quantitative skills or (2) have extensive experience with epigenomics/cell biology. Good organizational and writing skills are also required. We particularly encourage applications from candidates who have recently completed, or will soon complete, their Ph.D. and members of communities underrepresented in biology.

The position is NIH-funded and has full benefits. Salary will depend on candidate's experience. The start date is flexible and can be as early as July 2024.

The next review date is March 31st, 2024. The position will remain open until filled.

To apply, please use the following link to upload the required information <https://recruit.ap.uci.edu/-JPF08783>: curriculum vitae, including a full list of

publications. Pre-print articles can be included. a short (one-page maximum) statement describing candidates' past research experience, why you want to join us, future research interests, and you as a person contact information for three references.

Please contact Grace Lee (grylee@uci.edu) for any questions. Informal inquiries are welcome.

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 Assistant Professor Department of Ecology and Evolutionary Biology Center for Complex Biological Systems University of California, Irvine 5207 McGaugh Hall Irvine, CA 92697

grylee@uci.edu (949) 824-0615 <http://grylee.science/>
Grace Yuh Chwen Lee <grylee@uci.edu>

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UDebreceen Evolutionary Ecology

RESEARCH FELLOWSHIP IN BEHAVIOURAL ECOLOGY / POPULATION BIOLOGY

POSITION OVERVIEW. We are seeking a highly motivated and talented field biologist to join our team. The Research Fellow will play a crucial role in designing, implementing, and executing projects using field biology, behavioural investigations and population demography. While the focus will be primarily on writing up existing data, there will also be new opportunities to contribute to field work, experimental work and/or demographic modelling. The Fellow will have the opportunity to develop her/his own project related to the main research focus. The position is part of a large collaborative project "Sex roles and sex ratios in a changing world" which aims to promote interdisciplinary collaboration between research groups working on interactions among wild bird populations and their changing environment with funding from the HUN-REN programme of Hungarian Ministry of Innovation.

ABOUT US: Our international team of four PIs (see be-

low) is investigating behaviour and ecology of shorebirds (sandpipers, plovers and allies) since the 1990's and we have produced over 400 peer-reviewed publications on sexual selection, breeding systems, parental care, sex ratios and population demography. Our publications often have been published in high impact research journals. Beyond evolutionary significance, our research has direct implications for biodiversity conservation by preserving species and by working with local communities to protect shorebird habitats. We work globally using an international network of scientists, conservationists and students (see links below).

FURTHER DETAILS. The Research Fellow will focus on understanding the impacts of Anthropogenic effects on shorebird populations. How do sexual selection, mate choice and parenting help or hinder adaptation to environmental changes? How can we make future predictions from ongoing ecological processes? How can we apply this knowledge to best practices in biodiversity conservation to benefit wild populations and their habitats?

We seek applicants with strong research background in one (or more) of the following fields: behavioural ecology, population demography, wildlife conservation and evolutionary genomics. The Fellow will have four main tasks: (i) lead a new research initiative to uncover the causes and implications of changing planet especially in regard to mating systems and sex ratios using shorebirds as model organisms, (ii) assist with coordinating our numerous field study sites in Europe and abroad, (iii) contribute to supervision of MSc and PhD students, and (iv) help our team mentoring exceptionally talented and motivated early career scientists and conservationists globally. Feel free contacting one of the PIs if you are unsure about your fit to the position.

Applicants should have a Ph.D. in animal ecology, behavioural ecology, population demography or a related field, and a strong background in quantitative analyses. Knowledge of programming languages such as R is required, and experience with biostatistics or demography is desirable. Proficiency in English is essential as is research track record matching the career stage of the applicant.

DURATION: Two years (ideally from 1 May 2024 to 30 April, 2026), with the possibility of extension for further two years, depending on the candidate's performance. Longer terms are negotiable for exceptional candidates.

SALARY: The gross salary is 950,000 HuF per month (approx 2,469 euros per month; the average gross salary in Hungary is 1,272 euros). The net salary per month is at least 600,000 HuF, an equivalent of Hungarian professorial salary. Social and health insurance contri-

butions are independent of salary and are also paid by the employer.

ENVIRONMENT: The position is based in Debrecen: a vibrant and liveable city in eastern Hungary with large international student community. Debrecen has good public services and rental housing and food are affordable. The Fellowship is based of Debrecen Biodiversity Centre - a recently created institute at the University of Debrecen that carries out cutting edge research and conservation focused on climate change, water management and biodiversity. Our research team works closely with Hortobagy National Park - a UNESCO Heritage Site just outside Debrecen.

HOW TO APPLY: If you are interested in this position, please send i) a cover letter explaining your research interests and suitability for the position, ii) a copy of your CV with a list of scientific publications, and iii) contact information of two referees to szeman.karola@gmail.com. Please use the subject line "DBK Fellowship application." Only shortlisted candidates will be contacted for an interview. Application deadline: 15 March 2024.

For further information on the project and participants please see: ELVONAL SHOREBIRD SCIENCE <https://elvonalshorebirds.com/>

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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>

ULodz CrustaceanEvolution

PostDoc - Evolutionary History of Apseudomorpha, University of Lodz

We are looking for a PostDoc for a research project on the evolutionary history and biogeography of Apseudomorpha (Peracarida: Tanaidacea) at the University of Lodz. We want to work with a researcher who can think outside the box, demonstrate strong motivation and positive energy, as well as excellent organizational skills and attention to detail. Apseudomorpha are small marine crustaceans that can be found worldwide in benthic communities, from intertidal into deep-sea environments. The goals of the project are to: a) assess the geological time of evolution of crustaceans of the suborder Apseudomorpha, b) indicate the place of radiation of the last common ancestor of Apseudomorpha, c) determine the

evolutionary relationships (phylogeny) of the families within Apseudomorpha and identify their common morphological features (apomorphies), d) identify ecological factors influencing morphological changes (adaptations), and f) estimate the geological time of colonization of the deep ocean by Apseudomorpha.

The candidate should: - hold a PhD degree recognized in Poland obtained in 2016 or later in the field of biology, genetics, evolutionary ecology or a related field or a document confirming the award of a doctoral degree; (time limit for a PhD for women applying may be extended by 1.5 years for each child born or adopted) - be fluent in written and spoken English; - have experience working in a molecular biology laboratory (e.g. DNA/RNA extraction, PCR); - have experience in the generation and analysis of transcriptomic/genomic data; - have good interpersonal skills, experience in working as part of a research team, be able to work independently.

Of additional advantage are: - experience in the use of laboratory protocols in the field of molecular biology (DNA extraction, PCR, DNA libraries); - proficiency in carrying out morphological, phylogenetic and ecological analyses; - knowledge of invertebrate taxonomy.

RESPONSIBILITIES: - conducting and participating in scientific research and development work; - dissemination of scientific results or development of research by publishing in prestigious scientific journals included in the Journal Citation Reports list; - improvement of their own professional qualifications and abilities, including obtaining further academic degrees and titles; - participation in international mobility for research purposes; - supervision of technical staff and students; - showing initiative in organizing and improving efficiency of the own work and that of the team/unit; - obtaining funds for scientific research by applying in competitions at national or international level; - other organizational duties assigned by the immediate supervisor.

The selected candidate will work as part of an internationally recognized research group, participate in scientific trips to museums, e.g. in Gainesville (Florida, USA), Cape Town (South Africa) and establish cooperation with experts in the field of whole genome phylogenomics and invertebrate taxonomy. Position is fully funded up to 36 months (duration negotiable).

List of documents to be submitted by the candidates and other details: <https://www2.ncn.gov.pl/baza-ofert/?akcja=wyswietl&id=223760> Applications for the competition, along with the documents mentioned in the announcement, should be sent by e-mail to: emma.palaciostheil@biol.uni.lodz.pl by 24.03.2024.

The winner of the competition will be announced by

01.04.2024.

Planned start date: April 2024 (negotiable)

dr Emma PALACIOS THEIL Department of Invertebrate Zoology and Hydrobiology Faculty of Biology and Environmental Protection Banacha 12/16, 90-237 Lodz, Poland

+48 42 635 4442 emma.palaciostheil@biol.uni.lodz.pl;
<http://orcid.org/0000-0002-1471-8529> <https://www.researchgate.net/profile/E-Palacios-Theil> Emma Palacios Theil <emma.palaciostheil@biol.uni.lodz.pl>

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UManchester Symbiosis

Job reference: BMH-024719 Salary: 36,024 to 41,732 depending on relevant experience Faculty/Organisational Unit: Biology, Medicine Health Location: Oxford Road Employment type: Fixed Term Division/Team: Division of Evolution, Infection & Genomics Hours Per Week: Full Time Closing date: 29/02/2024 Contract Duration: From 10 May 2024 for 3 years School/Directorate: School of Biological Sciences

An exciting opportunity to join a diverse research group working in microbial evolution. The successful candidate will be part of an interdisciplinary team of researchers investigating the evolution of symbiosis.

The project, which is funded by the Biotechnology and Biological Sciences Research Council (BBSRC), explores the genomic architecture, molecular mechanisms and evolution of host control in symbiosis, using the Paramecium-Chlorella microbial symbiosis. Using a powerful combination of reverse genetics, multi-omics and laboratory experimental evolution we will reveal the mechanistic role of host control in the evolution of symbiosis.

The main responsibilities of this role include: design and delivery of laboratory evolution experiments, collecting and managing multi-omics and experimental data, statistical analysis and data visualisation, and the dissemination of the findings through peer-reviewed publications and conference presentations. The postholder will collaborate closely with the other project researchers and the investigators both in Manchester and at University of Oxford to deliver the research.

The candidate will have a PhD or equivalent in evolutionary biology or genetics, extensive knowledge of evolutionary biology, and excellent technical skills in experimental evolutionary biology. Candidates with training in population genetics and / or evolutionary genomics are strongly encouraged to apply.

As an equal opportunities employer we welcome applicants from all sections of the community regardless of age, sex, gender (or gender identity), ethnicity, disability, sexual orientation and transgender status. All appointments are made on merit.

Our University is positive about flexible working - you can find out more here

Blended working arrangements may be considered

Please note that we are unable to respond to enquiries, accept CVs or applications from Recruitment Agencies.

Enquiries about the vacancy, shortlisting and interviews:

Name: Prof. Michael Brockhurst

Email: michael.brockhurst@manchester.ac.uk

Prof. Michael Brockhurst | Professor of Evolutionary Biology Division of Evolution, Infection and Genomics | Faculty of Biology, Medicine and Health | University of Manchester

Michael Brockhurst <michael.brockhurst@manchester.ac.uk>

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UMassachusetts Amherst MarineConservationGenomics

Dear Colleagues,

We are excited to have an opportunity for a postdoctoral researcher to join our team leveraging genomic data to address research questions related to marine conservation genomics and ecological adaptation. This principally involves two study systems: population genomics of Winter Flounder (*Pseudopleuronectes americanus*) in the Gulf of Maine, and the genomic mechanisms underlying local adaptation and plasticity in marine snails, but with possible opportunities to develop additional projects broadly on molecular ecology in other species/systems. More details for the position and projects can be found here < <https://lkomoroske.com/news/> >; please reach out to lkomoroske@umass.edu with any questions.

Respectfully,

Lisa M. Komoroske, Ph.D. Assistant Professor of Conservation Genomics & Ecophysiology Dept. of Environmental Conservation UMass Amherst <https://lmmkomoroske.com/> <https://www.umass.edu/gloucester-marine-station/> lmmkomoroske@umass.edu

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UMerced California ComparativePopulationGenomics

A postdoc position is available studying comparative population genomic / community genomic analyses of kelp forest ecosystems.

A large dataset is already in hand (12 spp with reference genomes, ~150 whole genome sequences per species) ready to be analyzed, along with a little new fieldwork and some labwork to be done to establish genomic monitoring capacity. Ideally the postdoc will be experienced and interested in all three aspects, but the main skill needed upfront is being able to creatively and efficiently analyze large genomic datasets.

The work expands our work with the California Conservation Genomics Project < <https://www.ccgproject.org/> > which is summarized at <http://cgomo.net/comparative-population-genomics/> and <http://cgomo.net/community-genomics/> . To see more information on this postdoc position and to apply go to <https://aprecruit.ucmerced.edu/JPF01682> or email me at mdawson@ucmerced.edu

- Mike

Michael N Dawson University of California, Merced

Michael Dawson <mdawson@ucmerced.edu>

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UMilano EvolutionaryGenomicsLizards

Postdoc position in Milan, Italy - Genomic Responses to Global Changes

We are seeking a highly motivated postdoctoral researcher to join our team working on the evolution of population traits and genomes in the lizard genus *Podarcis*. We are currently working on two research projects in this topic, both combining genomic approaches (whole genome sequencing), phenotypic experiments (behaviour and physiology) and morphological characterization (colour and morphometric traits) to determine (1) the adaptive response of populations to urbanization gradients in two species (*Podarcis siculus* and *Podarcis muralis*) across several cities in Italy (PNRR-funded project), and (2) the adaptive response of populations to climate gradients and predictions of genomic vulnerability to climate change in two species (*Podarcis siculus* and *Podarcis tiliguerta*) across their geographical ranges (PRIN2022 EndeNiche; Intraspecific variation and the response of endemic species to global changes).

The postdoc will be hired in the Department of Environmental Science and Policy of the University of Milan (Italy; <https://esp.unimi.it/>), and enrolled under the supervision of Francesco Ficetola and Stj \ddot{u} phanie Sherpa. The current work team on lizard evolution also include a postdoc fellow and a PhD student. The postdoc will lead a significant part of the research project, develop her/his main axes of research, and have excellent communication skills in written and spoken English. Skills in bioinformatics, a strong background in population genetics, and experience in handling WGS data and ecological genomics methods are required. Field work activities are planned in April to June 2024 (Sardinia, Corsica, mainland Italy) and molecular biology work will be performed during summer 2024, allowing the postdoc to start analysing relevant datasets by fall 2024. Experience in fieldwork and/or in experimental molecular biology procedure would be a plus but is not requested.

The appointment is for 1 year, renewable for 1 additional year, with a possible starting date between April and August 2024. Salary will be determined with the postdoc based on experience. Applications should be sent by email to Francesco Ficetola (francesco.ficetola@unimi.it) and Stj \ddot{u} phanie Sherpa (stephanie.sherpa@unimi.it),

accompanied by a cover letter, a detailed CV, a list of publications, and two references. Reviewing of applications will begin immediately and will remain open until a suitable candidate is identified.

Stephanie Sherpa <stephanie.sherpa@unimi.it>

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UNebraska Lincoln PopulationBiology

The University of Nebraska-Lincoln is seeking applications for a 2-year postdoctoral position in the Population Biology Program of Excellence.

The goal of the Population Biology-POE Postdoctoral Fellowship is to stimulate synergistic interactions between faculty and postdoctoral scholars broadly interested in the area of Population Biology. We are seeking applicants who have recently completed, or will soon complete, their Ph.D. and who conduct cutting-edge research related to faculty research areas in the Ecology, Evolution & Behavior (EEB) section in the School of Biological Sciences (<https://biosci.unl.edu/research-areas>). POE postdoctoral fellows pursue a research program under the sponsorship of an EEB faculty member and are expected to enhance graduate education, serve as a model for graduate students in career development, and promote interactions among faculty at UNL. While in residence, the postdoctoral fellow is expected to lead a seminar, symposium, or outreach project that will appeal to Population Biologists across campus. Research descriptions for past and current POE postdoctoral fellows can be viewed at <http://biosci.unl.edu/population-biology/>. The expected salary will be \$45,000 per year. We anticipate notifying the successful applicant by April 30, 2024, with an expected starting date between August 1 and September 1, 2024.

EEB faculty at UNL are highly integrative and collaborative, using a wide array of approaches and study systems to study a diverse set of biological questions, from the molecular determinants of adaptation and speciation to multimodal animal communication to the community ecology of extinct mammals to the ecology and evolution of infectious disease. Lincoln is consistently rated as one of the best places to live in America, with a low cost of living, over 130 miles of bike trails throughout the city, and a vibrant restaurant and music

scene.

A Ph.D. in Biological Sciences or a related field is required by the start date.

Review of applications will begin April 1, 2024 and will continue until the position is filled. To apply, interested candidates should go to <https://employment.unl.edu>, requisition F_240013. Click “Apply for this Job” and complete the Faculty Academic/Administrative Information form. Applicants will be required to upload a curriculum vitae, a one-page description of previous or current research, and a two to three-page description of proposed research. The research statements will need to be combined into a single document for upload.

In addition, please arrange for two recommendation letters from non-UNL faculty and one recommendation letter from the UNL faculty sponsor (a total of three letters) to be emailed to ccressler2@unl.edu. The research proposal should be developed in collaboration with the proposed faculty sponsor. Priority will be given to applicants who are new to UNL.

As an EO/AA employer, the University of Nebraska considers qualified applicants for employment without regard to race, color, ethnicity, national origin, sex, pregnancy, sexual orientation, gender identity, religion, disability, age, genetic information, veteran status, marital status, and/or political affiliation. See <https://www.unl.edu/equity/notice-nondiscrimination>. Clay Cressler <ccressler2@unl.edu>

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USheffield AnimalColourationAI

The research group of Dr Christopher Cooney (<https://www.cooneylab.co.uk/>) in the School of Biosciences at the University of Sheffield (UK) is recruiting a postdoctoral researcher in machine learning, computer vision and animal colouration.

Summary The post is part of a funded project titled ‘Unlocking the complexity of organismal colour patterns using artificial intelligence’ that aims to develop new approaches for extracting and analysing high dimensional colour pattern information from images. Capitalising on extensive photographic datasets of animal colouration (<https://www.projectplumage.org/>), the project aims to use machine learning and computer vision techniques to produce a ‘next generation’ software toolkit for char-

acterising organismal colour pattern information with wide applicability.

The role The main responsibilities of the role are to conduct research into advanced approaches for characterising colour pattern information from image-based datasets and to develop user-friendly software pipelines for implementing these tools. This is an excellent opportunity to work on a project bridging biological and computer science research and to unlock new fundamental and applied research areas involving colour pattern phenotyping using AI.

The researcher will join the Cooney Lab which sits within the world-class Ecology and Evolutionary Biology Research Cluster at Sheffield. The project has strong collaborative links with other Sheffield academics including Dr Gavin Thomas (School of Biosciences), Dr Steve Maddock and Prof Jungong Han (Department of Computer Science). The role will also involve collaboration with international partner Dr Julien Renoult (University of Montpellier) and there is scope for an extended research visit to Montpellier as part of the role.

The post is full time for a period of 18 months and available immediately.

How to apply:

Full details of the role and how to apply can be found at this link: <https://www.jobs.ac.uk/job/DFW385/-research-associate> The closing date for applications is 8 March 2024 at midnight.

Any queries should be directed to Dr Chris Cooney (c.cooney@sheffield.ac.uk).

The University of Sheffield is committed to equality and valuing diversity and all applicants will be judged on merit according to the selection criteria.

NERC Research Fellow School of Biosciences University of Sheffield www.cooneylab.co.uk Chris Cooney <c.cooney@sheffield.ac.uk>

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USheffield Evolutionary Genomics

Postdoctoral Research Associate Position available in the Wright lab in the School of Biosciences at University of Sheffield.

See the link below for the full advert, including a complete job description and details on the application process:

https://jobs.shef.ac.uk/sap/bc/webdynpro/-sap/hrrcf_a_posting_apply?PARAM=cG9zdF9pbmN0X2d1aWQ9NjVDNTZCMDg5QjRGMjBDQkUxMDAwclient=400&sap-language=EN&sap-accessibility=X&sap-ep-themeroot=%2fSAP%2fPUBLIC%2fBC%2fUR%2fuos# ****

31 month position, application deadline is the 8th March 2024. Applicants are strongly encouraged to contact me (a.e.wright@sheffield.ac.uk) in advance of applying. Further details below.

Grade 7 (37,099 per annum)

We have an exciting opportunity for a motivated and enthusiastic individual interested in evolutionary biology and sexual selection to join the Leverhulme Trust and UKRI funded project 'Deciphering the genomics and evolution of honest sexual signals'.

The project will combine experimental, comparative and single-cell sequencing approaches across multiple evolutionary levels to integrate patterns of sexual dimorphism within populations and across species using stalk-eyed flies. The PDRA will lead the collection of single-cell expression data (scRNA-seq) and be responsible for identifying the genes and networks responsible for male eye-stalks and their evolution across species. The PDRA will be encouraged and supported to develop their own research projects.

The project has strong collaborative links with Prof Andrew Pomiankowski at University College London. Together, we provide a highly supportive environment with access to excellent development resources and cutting-edge facilities. The project will be funded for 31 months in the first instance, with a possibility for extension based on performance and financial availability.

Dr Alison Wright Senior Lecturer School of Biosciences University of Sheffield

alisonwright.co.uk @alielw

Alison E Wright <a.e.wright@sheffield.ac.uk>

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ing@mcmaster.ca)

USheffield Two ClimateAdaptation

The School of Biosciences at the University of Sheffield (UK) is currently advertising 3 3-year fellowship positions for outstanding, enthusiastic and dedicated scientists, who have the potential to become leaders in their chosen field, with the opportunity to build an independent research career.

There is one position in the broad field of zoology: <https://www.jobs.ac.uk/job/DGC284/research-fellow>
There are two positions in the broad field of Nature-based climate-solutions, encompassing mitigation and natural carbon sinks: <https://www.jobs.ac.uk/job/-DGC375/early-career-research-fellow-nature-based-climate-solutions-2-posts> A record of high-quality research publications and the ability to work effectively as an independent researcher in a new environment are essential.

We build teams of people from different heritages and lifestyles from across the world, whose talent and contributions complement each other to greatest effect. We believe diversity in all its forms delivers greater impact through research, teaching and student experience.

You are welcome to contact Nicola Nadeau (n.nadeau@sheffield.ac.uk, head of the Ecology and Evolutionary Biology research cluster) for informal enquiries.

Nicola Nadeau <n.nadeau@sheffield.ac.uk>

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ing@mcmaster.ca)

UToronto OpsinProteinEvolution

JOB POSTING - POSTDOCTORAL FELLOW

The Departments of Ecology & Evolutionary Biology and Cell & Systems Biology at the St. George campus of the University of Toronto invites applications for a Postdoctoral Fellowship in the Chang lab.

Area of Research: Protein Evolution/Deep Mutational Scanning

Description of duties: The University of Toronto invites applications for a postdoctoral research position in Professor Belinda Chang's lab, funded by an exciting new collaborative Human Frontier Research Program grant. The Chang lab is seeking to hire a postdoctoral researcher to investigate the origins and evolution of protein multifunctionality in opsins and other visual pigments. This will be accomplished using high-throughput approaches that take advantage of cell-based assays of rhodopsin activation.

Salary: \$55,000 - 65,000 (based on skills and experience)
Please note that should the minimum rates stipulated in the collective agreement be higher than rates stated in this posting, the minimum rates stated in the collective agreement shall prevail.

Project: Multifunctional proteins are subject to unusual constraints in their evolution, especially if different functions overlap in the polypeptide sequence. While proteins can often have multiple functions, little is understood of the process by which this may evolve. This project seeks to better understand how vastly different functions affect the evolution of proteins known as opsins. These are photopigments used in primary visual transduction, which recently have been found in *Drosophila* to also act as taste receptors, organize mechanosensory cells, as well as scramblases regulating the distribution of membrane lipids. We will be investigating the origin and evolution of this fascinating system using cell-based high-throughput approaches of rhodopsin light activation that have been developed in our lab. To investigate across other modalities, this project is an interdisciplinary collaboration with labs with expertise in fly genetics and electrophysiology (Goepfert, U Gottingen), biochemistry (Menon, Cornell U), and evolutionary genetics (Feuda, U Leister).

Required qualifications: The candidate must have (or is about to receive) a PhD in molecular biology, microbiology, biochemistry, or a related field. Experience with standard microbiology and molecular biology techniques, including molecular cloning, recombinant strain construction, and cell-based (yeast/mammalian) reporter assays, is strongly desired. Additional experience with synthetic biology/experimental evolution, FACS, or protein biochemistry techniques is advantageous, but not required. The successful candidate should demonstrate an ability to undertake the practical and theoretical aspects of the project, be able to work both independently and in collaboration with a multi-disciplinary team, and have a high proficiency in both written and oral communication.

Application instructions

All individuals interested in this position must submit a cover letter highlighting why you are well suited for this position and your career goals, a CV, up to 3 relevant publications, and contact information for 3 references. Please send this to belinda.chang@utoronto.ca.

Supervisor: Professor Belinda Chang

Expected start date: As soon as possible, but some flexibility for the right candidate. Term: 2 years, extendable for 1 year subject to performance/research progress

FTE: 100% Full time

Belinda Chang <belinda.chang24@gmail.com>

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UZurich AntibodyEvolution

Postdoctoral Position: Evolution of Antibody Responses and Computational HIV Vaccinology (University of Zurich)

We are seeking a highly motivated Postdoc with a robust quantitative background to contribute to a cutting-edge project at the intersection of bioinformatics, evolutionary biology, virology, and HIV immunology.

The project leverages unique immunological and clinical datasets from the Swiss HIV Cohort Study (www.shcs.ch), the Zurich Primary HIV Study (<http://www.viralinfectiousdiseases.uzh.ch/ZPHI.html>), and an upcoming HIV vaccine trial scheduled for 2024. The primary goal of the three-year project is to identify the

determinants that influence the induction of broadly neutralizing antibodies against HIV by studying the immune response to a lead HIV immunogen.

This interdisciplinary and translational initiative involves intensive experimental work and data analyses, fostering close collaboration between the group of Alexandra Trkola (Institute of Medical Virology, University of Zurich and the groups of Roger Kouyos and Huldrych Günthard at the Department of Infectious Diseases, University Hospital Zurich and international partners.

This position offers: A dynamic and interdisciplinary research environment with connections to both clinical practice and fundamental science.

Engagements with leading experimental and theoretical research groups.

Access to unique immunological and clinical data, providing the opportunity to shape subsequent experimental analyses on a pivotal question in HIV vaccinology.

Given the complexity of the data, the successful applicant must employ mathematical and bioinformatics approaches beyond conventional statistics. Thus, candidates should possess robust quantitative/computational skills and hold a Ph.D. in a discipline relevant to the project, such as Bioinformatics, Bio-Statistics, Bio-Mathematics, or Life Sciences with a substantial quantitative or computational component.

Interested applicants are invited to submit a cover letter, a comprehensive CV, a list of publications, and contact details for two or three academic references to: roger.kouyos@uzh.ch.

Roger Kouyos <roger.kouyos@uzh.ch>

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WorkshopsCourses

Berlin FlowerMorphologySystematics Jun3-14	111	Jun16	115
Bordeaux PhilosophyInEvolution Jun3-7	113	Naples EMBOPopulationGenomics Jun10-16	116
Como Italy BayesianPhylogenetics Aug26-30	114	Online BayesianAnalysesInPractice Mar4-8	116
Czechia WildlifeMalariaNetwork Sept1-5	114	Online BEAST2 Mar11-22	117
GrandRapids Michigan BotanySystematics Bionomia	114	Online DemographicInference May27-31	118

Online GeneralisedLinearModelsInR May6-10	118	Online SpatialOmicsInR May20-22	123
Online GenomeAssembly Mar18-22	119	Online TransposableElements Jun3-7	123
Online GenomeAssemblyNanopore Mar4-8	119	Raleigh NorthCarolina EvolMedSummerInst May19-24	124
Online IntroPalaeogenomics May9-15	120	UMassachusetts Boston ComparativeMethods Mar22-24	124
Online IntroSpatialEcoPhylogenetics Mar19-22 ...	121	WashingtonU StLouis PhylogeneticBiogeography Jun4-6	125
Online MetaAnalysisInR May13-16	121		
Online ProteomicsInR Mar18-20	122		
Online ReproducibilityInBioinformatics Apr15-17	122		
Online RNaseq Feb20-23	123		

Berlin
FlowerMorphologySystematics
Jun3-14

Dear colleagues,

Have you ever wondered how to connect the morphology of flowering plants with the current understanding of plant relationships? This course does just that, in exploring the floral diversity and evolution of angiosperms in the context of the APG system.

There are still places available on this intensive two-week workshop, providing a critical basis for diverse areas of research in botany

Please distribute widely.

Best wishes,

Louis Ronse De Craene and Julien Bachelier

Berlin Summer Course in Flower Morphology and Systematics 3-14 June 2024

This is the second version of a highly successful two-week workshop held in 2023. The course is based at the Biological Institute of the Freie Universität Berlin and the Berlin Botanical Garden, which offer extensive facilities, including functional microscopy laboratories and a huge plant collection of more than 20,000 species. The course is set up as lecture-based, laboratory taught, and interactive visits of the living collections.

FORMAT: 2-week workshop, lectures and hands-on practical sessions.

INTENDED AUDIENCE: Final year undergraduate students, PhD students, post-doctoral and advanced researchers, professionals (but no formal restriction). A basic knowledge of botany is preferred but not essential.

The course will run with a minimum of 8 and a maximum of 20 participants.

REGISTRATION FEE: euro 800 (euro 600 for Undergraduate and Master students)

(Registration includes coffee breaks, daily lunches with snacks, and visits, but does not include travel and accommodation).

HOW TO APPLY AND SECURE A PLACE: Please contact Dr. Louis Ronse De Craene (l.ronsedecraene@gmail.com) to request an application form.

To secure a place on the course you will be asked to pay a deposit of euro 100 - the rest to be paid by May 1st 2024.

COURSE INSTRUCTORS AND CONTACT:

Dr. Louis Ronse De Craene, Research Associate Royal Botanic Garden Edinburgh (l.ronsedecraene@gmail.com)

Prof. Julien Bachelier, Freie Universität Berlin (julien.bachelier@fu-berlin.de)

PROGRAMME:

Course Description and outline:

This short course will introduce students to the structure and development of flowers, with a focus on floral diversity and evolution and the significance of flowers for systematics. Major plant families will be identified within the framework of the main lineages of seed plants to understand their evolution and diversification. Additionally, students will learn to analyse, describe, and study the structure of inflorescences, flowers, and fruits, and based on their observations, to identify the main evolutionary patterns underlying their tremendous morphological diversity, as well as their potential pollination and dispersal mechanisms.

Course objectives and learning outcomes:

Through this course students will acquire the following skills:

- a guide to identifying plants using morphological characters in the context of the molecular classification system.

- a better understanding of the origin and evolution of floral structures, including their importance for classification, and of the main developmental patterns and evolutionary trends which underlie the tremendous diversity of reproductive structures.

- an ability to observe and recognise key characters through the study of live floral material and the building up of floral diagrams.

Course outline:

Daily activities will be in the following format:

9-12 Lecture, seminar and discussion of paper.

12-13 Lunch break

13-18 Plant collecting and observation.

Monday 3 June: Student presentations - introduction to morphology of vegetative structures and flowers, inflorescence and flower structure (floral diagrams and formulas).

Tuesday 4 June: Overview of major groups of flowering plants; major characteristics of Flowers and special attributes (phyllotaxis, aestivation, merism, symmetry, floral tubes and hypanthia).

Wednesday 5 June: Floral evolution from the ANITA grade to Mesangiosperms I

Thursday 6 June: Floral evolution from the ANITA grade to Mesangiosperms II

Friday 7 June: Monocot evolution: variations on a theme

Saturday 8 June: Basal eudicots and rise of the core eudicots

Sunday 9 June: Visit of the paleontological collections of the Museum of Natural Sciences

Monday 10 June: Rosid diversification I

Tuesday 11 June: Rosid diversification II

Wednesday 12 June Rosid-Asterid transition

Thursday 13 June: Asterid diversification I

Friday 14 June: Asterid diversification II - Conclusions and wrap-up

Recommended Textbooks and Reading:

Please note that this list is not exhaustive, and that these books will be available in class:

* Endress, P.K. 1996. Diversity and evolutionary biology of tropical flowers. Cambridge University Press, Cambridge. * Leins, P. & Erbar, C. 2010. Flower and fruit: morphology, ontogeny, phylogeny, function and ecology. Schweizerbart Science Publishers, Stuttgart.

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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>

Bordeaux PhilosophyInEvolution Jun3-7

Bordeaux Summer School - Philosophy in biology and medicine *June 3rd - June 7th, 2024 in Bordeaux, France*

Organized by the PhilInBioMed network < <https://www.philinbiomed.org/> > and the Conceptual Biology and Medicine Team < <https://immunoconcept.cnrs.fr/-conceptual-biology-medicine/> > in Bordeaux.

Course leaders:

- Serge Ahmed (neuroscience): University of Bordeaux - CNRS, France

- Carl Craver (philosophy of biology, philosophy of neuroscience): Washington University, USA

- Fridolin Gross (philosophy of biology, philosophy of computational biology): University of Bordeaux, France

- Hannah Kaminski (medicine, immunology): University of Bordeaux, France

- Jan Pieter Kohnsman (neuroscience, philosophy of neuroscience): University of Bordeaux - CNRS, France

- Lucie Laplane (philosophy of biology, philosophy of cancer): Université Paris 1 Panthéon-Sorbonne - CNRS, France (TBC)

- Maël Lemoine (philosophy of medicine, philosophy of aging): University of Bordeaux, France

- Søren Paludan (immunology): Aarhus University, Denmark

- Thomas Pradeu (philosophy of biology, philosophy of immunology): University of Bordeaux - CNRS, France

- Jonathan Sholl (philosophy of medicine, philosophy of nutrition): University of Bordeaux, France

- Marie Vasse (evolutionary biology and ecology): MIVEGEC, CNRS Montpellier, France

*Information and application: * <https://bss-philinbiomed.u-bordeaux.fr/en/abstracts> *Deadline for application:* March 31st, 2024

PhilInBioMed is both an interdisciplinary institute located at the University of Bordeaux < <https://www.u-bordeaux.fr/en> > and an international network < <https://www.philinbiomed.org/> > connecting groups and people working at the interface between philosophy, biology, and medicine, with the shared conviction that conceptual and philosophical approaches can make a critical contribution to science and medicine.

Between June 3rd and 7th 2024, PhilInBioMed is organising an interdisciplinary summer school dedicated to “Philosophy in biology and medicine”. For this, 20 young scholars (Master students, PhD students and post-docs) from the fields of philosophy of science, the life sciences, and medicine will come together and learn to use interdisciplinary methods to address conceptual issues in scientific research.

Course leaders will be present to highlight practical examples of interdisciplinary partnerships from their career, and to advise and interact with participants throughout the week. The programme will also include different formats such as group work, and individual discussions, designed to further interactions between participants and course leaders.

This summer school is a unique opportunity for young researchers to develop new interdisciplinary approaches that will benefit them throughout their career. Participants will not only learn about specific concepts and scientific advances, but they will also learn to take a new look at their own subject of research.

Sincerely,

Thomas Pradeu CNRS Research Director in Philosophy of Science Immunology Unit ImmunoConcEpT, UMR5164, CNRS & University of Bordeaux Presidential Fellow, Chapman University, CA, USA Team Leader Conceptual Biology and Medicine Team < <https://immunoconcept.cnrs.fr/conceptual-biology-medicine/> > Coordinator of the Philosophy in Biology and Medicine Network < <https://www.philinbiomed.org/> > (PhilInBioMed) Université de Bordeaux Bâtiment Bordeaux Biologie Santé, 3ème étage 2, rue Docteur Hoffinan Martinot 33076 Bordeaux, France & Institute for the History and Philosophy of Science and Technology < <https://www.ihpst.cnrs.fr/en> > Pantheon-Sorbonne University 13 rue du Four, 75006 Paris, France

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Como Italy Bayesian Phylogenetics Aug26-30

We are glad to inform you that the next Applied Bayesian Statistics school - ABS24 will be held in the city of Como, along the Lake Como shoreline, on August 26-30, 2024.

The school is organised by CNR IMATI (Institute of Applied Mathematics and Information Technologies at the National Research Council of Italy in Milano), in cooperation with Fondazione Alessandro Volta.

The topic will be BAYESIAN PHYLOGENETICS AND INFECTIOUS DISEASES.

The lecturer will be Prof. MARC SUCHARD (Department of Biostatistics, UCLA Fielding School of Public Health, USA), with the support of Filippo Monti (PhD student in Biostatistics, UCLA, USA).

If interested, you can register on the school website:

<https://abs24.imati.cnr.it/> If you are interested in the school but unwilling to register for the moment, please send an email to abs24@mi.imati.cnr.it and we will send you updates and reminders.

As in the past (since 2004), there will be a combination of theoretical and practical sessions, along with presentations by participants about their work (past, current and future) related to the topic of the school.

OUTLINE: The aim of this course is to explore the core challenges of Bayesian inference of stochastic processes in modern biology in terms of data-scale, model-dimensionality and compute-complexity. Challenging and emerging statistical solutions will be illustrated through the analysis of biological sequences, such as genes and genomes. Molecular phylogenetics has become an essential analytical tool for understanding the complex patterns in which rapidly evolving pathogens propagate across and between countries, owing to the complex travel and transportation patterns evinced by modern economies, along with growing political factors such as increased global population and urbanisation. As an accessible course for all, a brief introduction of the underlying biology (for statistical researchers) and of modern Bayesian inference (for practicing biologists) will be also provided.

Topics will cover probabilistic modeling techniques using both discrete- and continuous-valued stochastic pro-

cesses including continuous-time Markov chains and Gaussian processes; large-scale data-integration approaches incorporating factors like human mobility and climate measurements; recursive computing and other mathematical tricks to evaluate seemingly intractable likelihoods; state-of-the-art sampling methods for high-dimensional models including Hamiltonian Monte Carlo and its more recent non-reversible extensions; delivering timely inference on advancing computing hardware like graphics processing units and (maybe even) quantum devices.

We hope you will be interested in the school and we would like to meet you in Como next year.

We invite you also to share the information with people potentially interested.

Best regards

Elisa Varini and Fabrizio Ruggeri Executive Director and Director of ABS24

Marc Suchard <msuchard@ucla.edu>

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Czechia WildlifeMalariaNetwork Sept1-5

Pre-Announcement: funding for Wildlife Malaria Network (WIMANET) 1st Summer Training School

The Wildlife Malaria Network 1st Summer Training School will take place from 1st - 5th September 2024 in Field station Mohelno, Mohelno, Czechia. The training school will consist of five days of lectures and practical activities designed to introduce students to a broad range of research activities and skills related to working with Wildlife Malaria Parasites. Topics will include sample collection and storage, analysis of haematological parameters and an introduction to parasite identification, analysis of genetic sequence data, collection and identification of vector species, and methods to analyse community-level data. Specific topics will be tailored to the requirements of the selected students.

Geographical restrictions on funded places apply according to COST funding rules, and more information on eligibility can be found in the Annotated Rules for COST Actions (<https://www.cost.eu/uploads/2023/11/COST-094-21-Annotated-Rules-for-COST-Actions-Level-C-V1.4-Final-.pdf>). All teaching materials

will be available through the WIMANET website (<https://wimanet-science.github.io/web/>) after the course has concluded.

Applications are open to anyone interested in learning techniques to work with wildlife malaria parasites, but applicants must have an eCOST profile and have applied to be a member of WIMANET in order for their application to be approved. You can apply to join WIMANET here: <https://www.cost.eu/actions/-CA22108>, and more information about the network can be found here: <https://wimanet-science.github.io/web/>

The call for applications for the Wildlife Malaria Network 1st Summer Training School will open on 1st March and close on 31st March. Applications must be e-mailed to the Grant Awarding Co-ordinator, Dr Alexandra Corduneanu (alexandra.corduneanu@usamvcluj.ro), and to the WIMANET account (wimanet.science@gmail.com). The application consists of the following documents:

- a motivation letter detailing the benefits for the applicant and relevance of the training school to current research,
- Anticipated travel budget in Euros (costs of transport to Vaclav Havel Airport Prague, and travel insurance)
- a support letter from the Home Institution,
- a CV, including a list of academic publications if applicable.

The applications will be ranked by the Core Group based on: - benefits to the applicant in terms of career progression - benefit and contribution to the development of the COST Action

The selection will follow the COST policies on inclusiveness (gender, age, geography).

The final ranking will be approved by the Action Chair and Co-Chair. All researchers who applied to the call will be informed of the outcome of their application by 19th April.

The selected researchers should wait for the official invitation from the Grant Holder before booking any travel arrangements.

Please direct any questions to wimanet.science@gmail.com, and please alert any students who may be interested and not on the evolDir mailing list to this opportunity.

Best wishes,

Jenny

Dr Jenny Dunn (she/her)

Senior Lecturer in Animal Health and Disease, Postgraduate Research co-Lead, Chair, Wildlife Malaria Network

COST Action, School of Life and Environmental Sciences, University of Lincoln, Joseph Banks Laboratories, Lincoln, LN6 7DL, UK Twitter: @jennycdunn

Google Scholar: <https://scholar.google.co.uk/citations?user=0GP7Tv0AAAAAJ&hl=en> Wildlife Malaria Network: <https://www.cost.eu/actions/CA22108/> “JDunn@lincoln.ac.uk” <JDunn@lincoln.ac.uk>

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GrandRapids Michigan BotanySystematics Bionomia Jun16

At the Botany2024 conference in Grand Rapids, Michigan an NSF-sponsored workshop, “Supporting inclusive and sustainable research infrastructure for systematics (SISRIS) by connecting scientists and their specimens” will be held Sunday June 16 (8 am - 12 pm). For further details and application link: <https://tinyurl.com/3jmztfa> Do you make or use herbarium specimens as part of your research? Are you interested in learning how to better document your botanical expertise and contributions to collections-based research by using the latest web-based informatics tools, including Bionomia? Are you curious how these tools may also be used to advance research, improve collections management as well as build a more inclusive historical record by revealing hidden figures in botany? If so, please consider applying to attend the half-day SISRIS workshop at Botany2024 Sunday June 16 (8 am - 12 pm). We encourage individuals from all career-stages and institution types to apply. Stipends for participation (\$350 USD) are available to defray the cost of attending. For further details and application link: <https://tinyurl.com/3jmztfa> Email for questions: SISRIS2023@gmail.com

Andrea Weeks <aweeks3@gmu.edu>

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Naples EMBO Population Genomics Jun10-16

Deadline for registration is approaching for the upcoming EMBO Practical Course “Population Genomics: background and tools” to be held in Castellammare di Stabia, Naples, Italy, 10-16 June 2024!

IMPORTANT DATES for this Course:

Deadline for applications: 16/02/2024

Latest notification of acceptance: 01/03/2024

Course dates: 10-16/06/2024

Registration fee waivers and child care grants available!

Full details, including the course programme, invited speakers and the application form: <https://meetings.embo.org/event/24-pop-genomics> In this EMBO Practical Course, participants will learn fundamental concepts and advanced approaches to reconstruct the demographic history of populations and infer natural selection, using both classic and machine learning-based techniques. Participants will also learn the essential and advanced programming skills required to run the analyses related to the concept presented, with a special focus on machine learning. Keynote lectures focused on major achievements and future perspectives of population genomics will complement the training. Lectures and practicals are delivered by experienced outstanding and inspiring speakers. We expect participants to become fully confident in running analyses on their own after attending the course.

This course aims at evolutionary biologists who already have basic bioinformatics skills. Good knowledge of R is a pre-requisite and knowledge of Python is a plus. Ph.D. students and Postdoc researchers will benefit the most out of this course, but applications from all candidates will be evaluated in their context.

Chiara Batini, University of Leicester, UK
Vincenza Colonna, Consiglio Nazionale delle Ricerche, IT
Andrea Manica, University of Cambridge, UK

“Batini, Chiara (Dr.)” <cb334@leicester.ac.uk>

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Online BayesianAnalysesInPractice Mar4-8

Dear colleagues,

Registration is open for the course Introduction to Bayesian Inference in Practice - 8th edition. This course will be held live online (synchronous). Max 18 participants.

Dates: March 4th-8th, 2024. Online live sessions from Monday to Friday; 13:00 to 17:00 (Madrid time zone).

Course Overview:

Bayesian analyses have been implemented more and more often in the study of evolution, therefore understanding the basis of this approach is key to understanding current methods of phylogenetic analyses.

This course is based on the assumption that the easiest way to understand the principles of Bayesian inference and the functioning of the main algorithms is to implement these methods yourself.

The instructors will outline the relevant concepts and basic theory, but the focus of the course will be to learn how to do Bayesian inference in practice. He will show how to implement the most common algorithms to estimate parameters based on posterior probabilities, such as Markov Chain Monte Carlo samplers, and how to build hierarchical models.

He will also touch upon hypothesis testing using Bayes factors and Bayesian variable selection.

The course will take a learn-by-doing approach, in which participants will implement their own MCMCs using R or Python (templates for both languages will be provided).

After completion of the course, the participants will have gained a better understanding of how the main Bayesian methods are implemented in many programs used in biological research work. Participants will also learn how to model at least basic problems using Bayesian statistics and how to implement the necessary algorithms to solve them.

Participants are expected to have some knowledge of R or Python (each can choose their preferred language), but they will be guided “line-by-line” in writing their script. The aim is that, by the end of the week, each participant will have written their own MCMC - from

scratch! Participants are encouraged to bring their own datasets and questions and we will (try to) figure them out during the course and implement scripts to analyze them in a Bayesian framework.

More information and registration at <https://www.transmittingscience.com/courses/statistics-and-bioinformatics/introduction-bayesian-inference-practice/> or writing courses@transmittingscience.com

Best regards

Sole

Soledad De Esteban-Trivigno, PhD Director Transmitting Science www.transmittingscience.com Twitter @SoleDeEsteban Orcid: <https://orcid.org/0000-0002-2049-0890> Under the provisions of current regulations on the protection of personal data, Regulation (EU) 2016/679 of 27 April 2016 (GDPR), we inform you that personal data and email address, collected from the data subject will be used by TRANSMITTING SCIENCE SL to manage communications through email and properly manage the professional relationship with you. The data are obtained based on a contractual relationship or the legitimate interest of the Responsible, likewise the data will be kept as long as there is a mutual interest for it. The data will not be communicated to third parties, except for legal obligations. We inform you that you can request detailed information on the processing as well as exercise your rights of access, rectification, portability and deletion of your data and those of limitation and opposition to its treatment by contacting Calle Gardenia, 2 Urb. Can Claramunt de Piera CP: 08784 (Barcelona) or sending an email to info@transmittingscience.com or <http://transmittingscience.com/additional-terms>. If you consider that the processing does not comply with current legislation, you can complain with the supervisory authority at www.aepd.es. Confidentiality. - The content of this communication, as well as that of all the attached documentation, is confidential and is addressed to the addressee. If you are not the recipient, we request that you indicate this to us and do not communicate its contents to third parties, proceeding to its destruction. Disclaimer of liability. - The sending of this communication does not imply any obligation on the part of the sender to control the absence of viruses, worms, Trojan horses and/or any other harmful computer program, and it corresponds to the recipient to have the necessary hardware and software tools to guarantee both the security of its information system and the detection and elimination of harmful computer programs. TRANSMITTING SCIENCE SL shall not be liable.

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Online BEAST2 Mar11-22

Dear colleagues,

In case someone is interested, there are only 3 slots available for the course “Bayesian phylogenetic inference with BEAST2”.

Online live sessions on the 11th, 13th, 15th, 18th, 20th and 22nd of March, from 15:00 to 18:30 (Madrid time zone).

Course Overview:

Bayesian phylogenetic inference is a powerful tool for reconstructing phylogenies while accounting for complex evolutionary dynamics. It allows prior knowledge to be integrated into the inference, and also provides a detailed picture of the uncertainty present in the dataset. However, the number and complexity of the available models and options can be daunting for users, and can make it difficult to apply inference tools effectively in practice. In this workshop, participants will learn the theoretical concepts underlying the different models involved in Bayesian phylogenetic inference, and get hands-on experience using these models in BEAST2. Particular attention will be given to more complex tree models, such as the fossilized birth-death model used to integrate past information into phylogenies, as well as rate-heterogeneous models which allow for variations in evolutionary dynamics across clades. Finally, the course will give practical information on setting up and troubleshooting analyses in BEAST2.

Registration and more information: <https://www.transmittingscience.com/courses/evolution/-bayesian-phylogenetic-inference-with-beast2/> Best wishes

Sole

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Online Demographic Inference May27-31

Dear all,

We are excited to announce that registrations are open for the 3rd edition of our course on “Model-Based Demographic Inference from Population Genomics” scheduled from May 27th to May 31st, 2024. To accommodate international participation, the course will be conducted online.

Course website: (<https://www.physalia-courses.org/courses-workshops/demoinference/>) This course will delve into inferring demographic models from genomic datasets, focusing on both model and non-model organisms. Participants will gain hands-on experience in using single nucleotide polymorphisms (SNPs) and the site-frequency spectrum (SFS) to estimate demographic parameters such as divergence times and effective population sizes. Theoretical lectures will be complemented by practical exercises using simulated and real data. This course is designed for graduate students, postdocs, and researchers interested in population genomics and statistical inference. While a basic understanding of population genetics is recommended, no prior programming experience is necessary. However, participants are encouraged to familiarize themselves with R and UNIX-based command lines before the course.

For the full list of our courses and workshops, please visit: (<https://www.physalia-courses.org/courses-workshops/demoinference/>)

Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
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Online GeneralisedLinearModelsInR May6-10

Dear all,

registrations are now open for our Introduction to GLMs in R course!

Dates: online, May 6th-10th

Course website: (<https://www.physalia-courses.org/courses-workshops/glm-in-r-1/>)

Introductory statistics often present a series of isolated tests and procedures (e.g., t-test, ANOVA, ANCOVA, regression). However, many of these tests can be understood as specific instances of the generalized linear regression model (GLM). In this course, we will present GLMs as a unified, comprehensive, and adaptable framework for analyzing various data types. This includes Nor-

mal (Gaussian), binary, and discrete (count) response variables, incorporating both categorical (factors) and continuous predictors.

For the full list of our courses and workshops, please visit: (<https://www.physalia-courses.org/courses-workshops/glm-in-r-1/>)

Best regards, Carlo

ChatGPTIntroductory statistics often present a series of isolated tests and procedures (e.g., t-test, ANOVA, ANCOVA, regression). However, many of these tests can be understood as specific instances of the generalized linear regression model (GLM). In this course, we will present GLMs as a unified, comprehensive, and adaptable framework for analyzing various data types. This includes Normal (Gaussian), binary, and discrete (count) response variables, incorporating both categorical (factors) and continuous predictors.

Carlo Pecoraro, Ph.D

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Online GenomeAssembly Mar18-22

Dear all,

if you are interested in learning about Genome Assembly and Annotation, have a look at our course: (<https://www.physalia-courses.org/courses-workshops/course20/>)

Dates: Online, March 18th-22nd

This course will introduce biologists and bioinformaticians to the concepts of de novo genome assembly and annotation, providing a theoretical framework and practical examples. By the end of the course the students will be able to understand what is needed to generate an annotated and curated reference genome of high-quality.

The course is aimed at researchers interested in learning more about genome assembly and annotation. It will include information useful to both beginners and more advanced users. We will start by introducing general assembly and annotation concepts and algorithms, providing a historical context. We will then describe all

major components of a typical genome assembly workflow using the Vertebrate Genomes Project assembly pipeline as example. We will further analyse the multiple ways a genome can be annotated to maximize its utility for downstream analyses. There will be a mix of lectures and hands-on practical exercises, either using graphical interfaces (<https://assembly.usegalaxy.eu/>) and basic command line.

For the full list of our courses and workshops, please visit: (<https://www.physalia-courses.org/courses-workshops/-course20/>)

Best regards, Carlo

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Online Genome Assembly Nanopore Mar4-8

Dear all, there are only a few last seats available for our upcoming online course, “Genome Assembly Using Oxford Nanopore Sequencing,” taking place from 4-8 March 2024.

Course website: <https://www.physalia-courses.org/courses-workshops/course59/> Our course will cover the entire process - from basecalling through to genome assembly, polishing, and quality control, using Oxford Nanopore Technologies sequencing data. The sessions will include both theoretical background and practical application with model viral and bacterial datasets.

Limited Seats: To ensure a personalized learning experience, we have limited seats available. Secure your spot now for a comprehensive journey into the world of genome assembly using long-reads.

Learning Outcomes: - Understand the steps involved in genome assembly using long-read data. - Gain practical experience in choosing and using optimal tools for various dataset types. - Explore applications in microbiome, bacterial, viral, and mammalian genomics.

For the full list of our courses and Workshops, please visit: <https://www.physalia-courses.org/courses-workshops/> Best regards, Carlo

Carlo Pecoraro, Ph.D

Physalia-courses DIRECTOR info@physalia-courses.org
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Online Intro Palaeogenomics May9-15

Dear colleagues,

Registration is open for the second edition of the course “Introduction to Palaeogenomics”.

Date and schedule: Online live sessions on the 9th, 10th, 13th, 14th, and 15th of May, from 16:00 to 20:30 (Madrid time zone).

Course Overview:

Ancient DNA (aDNA) research, defined as the retrieval and analysis of DNA sequences from various degraded biological materials, has been evolving as a research field for four decades. Through advances in DNA isolation and amplification techniques, sequencing technologies and data analysis pipelines, the field has revolutionized and transitioned to what we now know as palaeogenomics. DNA extracted from archaeological samples, and museum specimens has proven useful to study species and life on earth from the genomic perspective. It has made it possible to measure changes in genetic diversity through time, test hypotheses about the association of environmental phenomena and genetic changes in natural populations, and to resolve long-standing questions about the evolutionary relationships between species.

In a combination of interactive lectures and hands-on practical sessions, this course will provide a theoretical overview of molecular biology laboratory techniques for the retrieval of aDNA from ancient samples from different species and an introduction to the bioinformatic pipelines for the analysis of palaeogenomic data. Students will be introduced to the standard bioinformatic methods often used in palaeogenomic projects for the analysis of aDNA data from human and non-human samples. We will also review the history and developments of the field to understand how it came to be what it is today, and consider and discuss the practical problems

of ancient DNA recovery, the theoretical problems associated with the interpretation of palaeogenomic data, and the ethical implications embedded in this type of research.

At the end of the course, students will have gained a general understanding of common key methods and tools used in palaeogenomics projects: from the basics in the field to the interpretation of the results, as well as ethical and responsibility aspects and implications of aDNA research.

For more information and registration: <https://www.transmittingscience.com/courses/genetics-and-genomics/introduction-to-palaeogenomics-concepts-methods-and-applications-of-ancient-dna-data/> or write to courses@transmittingscience.com

With best regards

Sole

Soledad De Esteban-Trivigno, PhD Transmitting Science www.transmittingscience.com Twitter @SoleDeEsteban Orcid: <https://orcid.org/0000-0002-2049-0890> Under the provisions of current regulations on the protection of personal data, Regulation (EU) 2016/679 of 27 April 2016 (GDPR), we inform you that personal data and email address, collected from the data subject will be used by TRANSMITTING SCIENCE SL to manage communications through email and properly manage the professional relationship with you. The data are obtained based on a contractual relationship or the legitimate interest of the Responsible, likewise the data will be kept as long as there is a mutual interest for it. The data will not be communicated to third parties, except for legal obligations. We inform you that you can request detailed information on the processing as well as exercise your rights of access, rectification, portability and deletion of your data and those of limitation and opposition to its treatment by contacting Calle Gardenia, 2 Urb. Can Claramunt de Piera CP: 08784 (Barcelona) or sending an email to info@transmittingscience.com or <http://transmittingscience.com/additional-terms>. If you consider that the processing does not comply with current legislation, you can complain with the supervisory authority at www.aepd.es. Confidentiality. - The content of this communication, as well as that of all the attached documentation, is confidential and is addressed to the addressee. If you are not the recipient, we request that you indicate this to us and do not communicate its contents to third parties, proceeding to its destruction.

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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 IntroSpatialEcoPhylogenetics Mar19-22

ONLINE COURSE - An Introduction to Spatial Eco-Phylogenetics and Comparative Methods (SECM01)

We still have a few places available.

<https://www.prstats.org/course/an-introduction-to-spatial-eco-phylogenetics-and-comparative-methods-secm01/> 19th - 22nd March 2024

Please feel free to share!

COURSE OVERVIEW - In this course we introduce phylogenetic analyses in a spatial context. Phylogenetic analyses often imply a high number of species for which phylogenetic information is unavailable, hence we begin by providing an overview on modern techniques to incorporate phylogenetic uncertainty in the analyses (day 1). We then cover the most popular analyses in the spatial phylogenetics discipline (day 2), with particular focus on the canonical analysis of neo- and paleo-endemism (CANAPE). The second part of the course will be devoted to integrating phylogenetic information into models of geographic distribution of species (day 3), followed by an overview of recent advances to improve ecological forecasts using phylogenetic mixed models in a Bayesian framework (day 4).

By the end of the course, participants should:

Know how to expand incomplete phylogenies based on taxonomic information and customizing simulation parameters for optimal expansion. Understand the metrics and concepts used in spatial phylogenetics (i.e. phylogenetic alpha and beta diversity, phylogenetic endemism), interpret them critically, and assess pros and cons of

analytical techniques. Calculate phylogenetic predictors that can be included as covariates in Species Distribution or Niche Models. Understand and implement the phylogenetic mixed model (PMM) and translate its predictions into a spatial context.

Day 1 - Expansion of molecular trees using taxonomic information and fundamental metrics of phylogenetic structure

Software for tree expansion exercises; randtip, PhyloMaker An overview of the fundamental metrics of phylogenetic structure. Null models.

Day 2 - Spatial Phylogenetics

Canonical analysis of neo- and paleo- endemism. Metrics, rationale, workflow, and implementation.

Day 3 - Phylogenetic Species Distribution Models

Putting phylogenies in the geography: the imprints of evolutionary relationships in distribution models. Combining phylogenies with co-occurrence to infer spatial phylogenetic predictors. Fitting, evaluating and interpreting Phylogenetic-SDMs.

Day 4 - Beyond PGLS - Bayes and more

Most common phylogenetic modelling approaches: PGLS PGLMM The phylogenetic mixed model (PMM) in a Bayesian framework Please email oliverhooker@prstatiatics.com with any questions.

-

Oliver Hooker PhD. PR stats

Oliver Hooker <oliverhooker@prstatistics.com>

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Online MetaAnalysisInR May13-16

Dear all,

We are excited to announce our upcoming online course on “Meta-Analysis in R,” scheduled from May 13 to 16, 2024.

Course website: (<https://www.physalia-courses.org/-courses-workshops/metain-r/>)

This course provides a comprehensive introduction to modern meta-analysis methods. Our topics include the systematic review and meta-analysis process, statistical analysis, interpretation, and presentation of results. We

will delve into parameter estimation, statistical artifacts, random-effects meta-analysis, meta-regression, model diagnostics, sensitivity analyses, and more. Throughout the course, we will use real meta-analytic datasets for hands-on tutorials and practice exercises, emphasizing the application and interpretation of various methods.

Who is this for?

While the course is designed to be fairly self-contained, a basic familiarity with statistical methods (e.g., regression, hypothesis testing) is recommended. The course will use R for analyses, and though we’ll cover the necessary steps, prior basic familiarity with R is beneficial.

For the full list of our courses and Workshops, please visit: (<https://www.physalia-courses.org/-courses-workshops/metain-r/>)

Best regards, Carlo

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Online ProteomicsInR Mar18-20

Dear all,

we still have a few seats available for course the course “R/Bioconductor for Mass Spectrometry and Proteomics”! Join our upcoming course designed to empower proteomics practitioners and data analysts/bioinformaticians with the skills needed to manipulate and interpret MS data effectively.

Course Details: Dates: 18-20 March 2024 Format: Online (to accommodate international participants) Time: Classes run from 2 pm to 8 pm Berlin time each day Course Overview: Over three days, you’ll delve into: Understanding raw MS data Identifying and quantifying proteins Statistical interpretation of MS experiments Hands-on tutorials for practical learning Target Audience: While familiarity with MS or proteomics is beneficial, it’s not mandatory. Basic knowledge of R is required, and familiarity with Bioconductor and tidyverse syntax is advantageous but not necessary.

Course website: (<https://www.physalia-courses.org/-courses-workshops/course58/>)

For the full list of our courses and workshops, please visit:
(<https://www.physalia-courses.org/courses-workshops/-course58/>)

Best regards,

Carlo

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Online ReproducibilityInBioinformatics Apr15-17

Dear all,

We still have a few seats left for our course, “Reproducibility in Bioinformatics” scheduled for April 15th-17th.

Course website: (<https://www.physalia-courses.org/courses-workshops/bioinformatics-reproducibility/>)

Join us to delve into the world of modern bioinformatics with hands-on experience and essential knowledge in:
1) Mastering concepts and techniques for reproducible bioinformatics data analyses
2) Streamlining data organization, documentation, and software versioning
3) Navigating virtual software environments like a pro
4) Implementing software containerization strategies and honing best practices
5) Effectively utilizing common workflow management systems

For the full list of our courses and workshops, please visit:
(<https://www.physalia-courses.org/courses-workshops/-bioinformatics-reproducibility/>)

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

Best regards, Carlo

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Online RNAseq Feb20-23

The Computational Biology Core is hosting an RNA-seq Gene Expression (with reference genome and annotation) Workshop February 20-23, 2024. This workshop will focus on experimental design, high throughput sequencing basics, quality control, alignment to a reference genome, differential expression analysis, and functional annotation. Tools presented are appropriate for researchers working in systems with a reference genome.

More information and registration: <https://-bioinformatics.uconn.edu/cbc-workshops/> WHERE: Virtual (zoom)

WHEN: 9:00 AM - 12:00 PM

COST: \$400 (UConn affiliates) \$500 (External participants)

Questions? E-mail cbcsupport@helpspotmail.com

“Nahom, Mia” <mia.nahom@uconn.edu>

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ing@mcmaster.ca)

Online SpatialOmicsInR May20-22

Dear all, We are excited to announce our upcoming online course on Spatial Omics in R/Bioconductor, scheduled for May 20-22, 2024.

For more details and registration, please visit: <https://www.physalia-courses.org/courses-workshops/-spatial-transcriptomics/> Designed for biologists and researchers with a basic background in omics and data analysis, this course aims to provide participants with a comprehensive understanding of spatial omics. Key topics include exploring various spatial omics technologies, practical considerations in experimental design, challenges in data analysis, and the application of ‘tidy’ data principles specific to this field.

Learning Outcomes: - Differentiate between imaging and sequencing methodologies in spatial omics.

- Gain practical skills in experimental design and data analysis.

- Apply analytical frameworks and tools, including R/Bioconductor packages such as SpatialExperiment, tidySpatialExperiment, Seurat, and Giotto.

- Interpret spatial omics data to derive meaningful insights.

For the full list of our courses and Workshops, please visit: <https://www.physalia-courses.org/courses-workshops/> Best regards,

Carlo

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Online TransposableElements Jun3-7

Dear all,

registrations are now open for the next edition of the course “Bioinformatic analysis of Transposable Elements”.

Dates: 3rd-7th June 2024 Format: Online Course
website: <https://www.physalia-courses.org/courses-workshops/course24/> his course tackles Transposable Elements analysis complexities, covering TE biology, computational analyses (genome annotation, TE classification), transcriptomics, and manual curation.

The course is aimed at biologists at any career stage who are new to TE analyses and/or de-novo annotation of the repetitive fraction of non-model genomes.

For the full list of our courses and workshops, please visit: <https://www.physalia-courses.org/courses-workshops/>
Best regards, Carlo

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Raleigh NorthCarolina EvolMedSummerInst May19-24

We are excited to announce that the Triangle Center for Evolutionary Medicine (TriCEM) is accepting applications for the 2024 Evolutionary Medicine Summer Institute (EMSI).

This year, EMSI will be held from the evening of May 19th through 24th at North Carolina State University in Raleigh, NC. EMSI provides training in evolutionary medicine, with a focus on computational methods, networking, and advancing research frontiers. We aim to attract a diverse pool of applicants that include students, postdocs, and faculty with biological or social science interests, plus clinicians and other medical, veterinary, and public health practitioners.

The goals of EMSI are to: - Introduce core evolutionary principles relevant to public health and medicine. - Apply evolutionary perspectives to a wide range of topics, including infectious disease, microbial resistance, cancer, the microbiome, and more. - Provide training in computational methods used in evolutionary and ecological research. - Build collaborative networks across the evolutionary sciences, human and veterinary medicine, and public health to fuel new research in evolutionary medicine.

Through lectures, hands-on computational exercises, and team-based learning projects, participants will gain the background and the tools to apply evolutionary biology to questions of medical and veterinary importance. For more information, please visit the EMSI website.

To apply, please visit our website (<https://sites.duke.edu/emsi/>) to complete the application by Friday, March 22nd, 2024. If you have any questions, please contact Johnny Uelmen (johnny.uelmen@duke.edu).

“Johnny Uelmen, Ph.D.” <johnny.uelmen@duke.edu>

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UMassachusetts Boston
ComparativeMethods Mar22-24

Dear colleagues.

James Boyko, Luke Harmon (joining remotely), & I will be offering a professional workshop on the topic of phylogenetic comparative methods in R at the University of Massachusetts Boston from March 22nd through 24th, 2024 (three full workshop days).

This workshop is free of cost; however, priority for admission will be given to local participants & participants who do not need us to cover their travel & lodging expenses. Some very limited travel & lodging scholarships may be available.

Non-local participants selected for the workshop should expect to arrive to Boston in the evening of Thursday, March 21st and return either late Sunday, March 24th or in the morning of Monday, March 25th.

The application deadline is Monday, February 26th. More information and an application form can be found at <http://www.phytools.org/umb2024/>. Please email me, Liam Revell (liam.revell@umb.edu), with any questions.

This workshop is sponsored by the National Science Foundation award DBI 1759940 to me.

Thanks everyone! All the best, Liam

Liam J. Revell Professor of Biology, University of Massachusetts Boston Web: <http://faculty.umb.edu/liam.revell/> Book: Phylogenetic Comparative Methods in R < <https://press.princeton.edu/books/phylogenetic-comparative-methods-in-r> > (/Princeton University Press/, 2022)

“Liam J. Revell” <liam.revell@umb.edu>

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WashingtonU StLouis
PhylogeneticBiogeography Jun4-6

Phylogenetic Biogeography Workshop @ WUSTL

You are invited to participate in a Phylogenetic Biogeography Workshop hosted at Washington University in St. Louis from June 4 - 6, 2024. The deadline to apply is March 6, 2024.

This free, 3-day workshop will cover the fundamentals of applying phylogenetic models of historical biogeography for ancestral state estimation, divergence time estimation, and hypothesis testing using the Bayesian phylogenetics package, RevBayes. Instructors will include Isaac Lichter Marck (Cal Academy), Fábio Mendes (WUSTL), Michael Landis (WUSTL), Sarah Swiston (WUSTL), and Felipe Zapata (UCLA).

Some familiarity with programming and phylogenetics is required. We expect most participants will be graduate student or postdoctoral researchers, but advanced undergraduates, curators, faculty, etc. are also encouraged to apply.

The workshop will provide instruction, refreshments, and 4 nights of shared-room housing, free-of-charge. Students will need to bring their own laptops, handle their own meal plans, and arrange their own transportation to participate in the workshop. This workshop is made possible with generous funds from the NSF on the “Origin and Evolution of Hawaiian Plants” project.

Apply here: <https://forms.gle/3ax6q4GzYFMysK4W8>

More workshop details: <https://sites.wustl.edu/hawaiianplantbiogeography/phylogenetic-biogeography-workshop-wustl/> Please contact phylo.biogeo.workshop@gmail.com with any questions or comments about the workshop.

Michael Landis Assistant Professor Department of Biology Washington University in St. Louis michael.landis@wustl.edu <https://landislab.org> “Landis, Michael” <michael.landis@wustl.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^AT_EX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category “Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:” and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formatted) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

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