E v o l D i r

November 1, 2023

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

Foreword

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

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

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

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Conferences

BangaloreIndia Polygenic May6-17

Dear Colleague,

We are happy to announce the program 'Theoretical and Empirical Approaches to Understand Polygenic Adaptation' which will be held at ICTS, Bangalore during 6-17 May 2024.

The aim of this program is to integrate the population- and quantitative-genetics view of adaptation into a single framework, extend their ambit to include other scenarios and address how one can relate them to the empirical data.

The program will feature pedagogical lectures, research seminars, tutorials and discussion sessions.

For more details and to apply, please visit: https://-www.icts.res.in/program/adapt2024 Kavita Jain (JNCASR, India), Christian Schlotterer (Vetmeduni Vienna, Austria), Sam Yeaman (Univ of Calgary, Canada)

Kavita Jain <jain@jncasr.ac.in>

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Copenhagen Hologenomics Jun30-Jul2

We are delighted to advertise an 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, to general great enthusiasm.

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.

We anticipate that again 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 there will be a mandatory sign up for attendees to enable us to appropriately cater for the event. Those attending in person will be welcome to submit abstracts for consideration in both poster and oral presentations.

More details, including the range of topics covered as well as the confirmed invited speakers can be found at the conference website.

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

On behalf of the organisers,

Tom Gilbert

Director DNRF Center for Evolutionary Hologenomics

Professor of Palaeogenomics, The Globe Institute, University of Copenhagen & Professor II, NTNU University Museum

ster Farimagsgade 5A 1353 Copenhagen Denmark tgilbert@sund.ku.dk +45 23 71 25 19

"tgilbert@sund.ku.dk" <tgilbert@sund.ku.dk>

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Davos Switzerland GenomicsBiodiversityConservation Jun16-21

Dear Colleagues,

Contribute to the 3rd World Biodiversity Forum - From Science to Action 16 - 21 June 2024 Davos Congress Centre, Switzerland

Do you work on conservation genomics? Do you believe your research has real-world applications that can make a positive impact on our planet's biodiversity? If so, we invite you to join us at our upcoming symposium, "Gen_3.1 Genomic Solutions for Biodiversity Conservation: translating Cutting-edge Research into Action," at the World Biodiversity Forum 2024 in Davos, Switzerland. Don't forget to submit your abstract by November 19!

http://worldbiodiversityforum2024.org/abstract-submission/ Please help us spread the word by sharing this post with your colleagues and friends who might want to contribute to our session.

If you have any questions or need more information, feel free to contact me directly at goezde.cilingir[at]uzh.ch

Gözde Cilingir <goezde.cilingir@ieu.uzh.ch>

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Delhi NCR Genomics Feb1-3 RegistrationOpen

Genomics India Conference is back and this time we are coming to Shiv Nadar Intitution of Eminenece, Delhi NCR. GIC 2024 will be held from 1st to 3rd of February 2024 and we are happy to send you an early invitation for India's premier genomics conference.

GIC2024 focuses on "Advances In Genomics From AI-ML To Targeted Therapies". GIC2024 encourages researchers to present original contributions for poster presentations.

Note: Early bird registration closes on 1st December 2023.

Kindly, register at GIC 2024 Earlybird registartion

For more information write to us at conference@genotypic.co.in

"conference@genotypic.co.in" <conference@genotypic.co.in>

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Glasgow EvolutionPathogensPublicHealth Oct18

The COVID-19 pandemic has accelerated the uptake of genomics and bioinformatics in public health institutions globally. A transfer of genomic and bioinformatic expertise from academic research to routine public health practice has taken place. It is important to continue supporting global public health institutions and to maintain the collaborations that formed during the pandemic research response.

We are organising a meeting on "Evolution, Pathogens and Public Health" with the ambition for a network that will continue to share know-how and thus bridge the gap between academic research in bioinformatics and genomics and the practices necessary for operationalising genomics and bioinformatics in public health settings. This network will reinforce the end-to-end capacities from sample collection, diagnostics, data sharing and analysis by bringing together researchers and public health scientists involved at different stages of the process of genomic surveillance.

We invite submissions of interest for talks and posters on lessons learnt from applications of genomic surveillance for different use cases including new and emerging pathogen response, acute outbreak management, management of epidemic-prone or seasonal pathogens, pathogens with continuing public health risks, evolution of resistance, and disease eradication.

A list of confirmed talks and posters can be found here:http://bit.ly/epph2023 The meeting is free but limited to 50 participants, thus priority will be given to individuals who have submitted a talk or poster abstract. Please register and/or submit your abstract before Tuesday 10th of October:https://forms.office.com/-e/SrJ79bXBf6 We encourage early career researchers to apply and are committed to supporting and promoting equality and diversity. If you have caring responsibilities, the Genetics Society can help with a 60 award which can be used in a way that best supports your attendance (please contactjoseph.hughes@glasgow.ac.ukfor further details).

Organising committee:

Sharif Shaaban, Public Health Scotland Jordan Ashworth, Public Health Scotland

Joseph Hughes, MRC-University of Glasgow Centre for Virus Research

Kind regards,

Joseph Hughes, PhD Medical Research Council-University of Glasgow Centre for Virus Research Joseph.Hughes@glasgow.ac.uk

+44 (0)141 330 4019 https://bioinformatics.cvr.ac.uk/-people/joseph-hughes/ Joseph Hughes <joseph.hughes@glasgow.ac.uk>

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Helsinki EuroEvoDevoSymposiumProposals Oct14Deadline

Dear EvoDevo researchers,

Due to multiple requests we are extending the deadline for symposium proposals for the *9th meeting of the European Society for Evolutionary Developmental Biology* (EuroEvoDevo) to *14th October 2023*. EuroEvoDevo is scheduled for 25th - 28th June 2024 in Helsinki, Finland (http://www.euroevodevo2024.fi/).

Each symposium will accommodate four invited speakers, with a time allotment of 25 minutes for each speaker (20 minutes for presentation and 5 minutes for discussion). Please remember that speakers can only present in one symposium. To facilitate the selection process, *please follow this link* (https://elomake.helsinki.fi/-lomakkeet/124795/lomake.html), which will guide you to a submission forms submission page. The form will ask for the following details:

1. Title of Symposium. 2. Provisional List of Proposed Speakers. 3. Abstract Length Description of the Symposium, including a brief indication of each speaker's contribution. 4. Brief justification of why the symposium is appropriate for an EED meeting (e.g., timeliness, general interest, interdisciplinarity, integration of evo and devo) 5. Contact Information of all symposium organizers and additional details. 6. Indicate whether you intend to seek external financial support for your symposium (Please note that while we don't provide financial support for invited speakers, we strongly encourage symposium organizers to seek external support). 7. Feedback for the organizers

We look forward to receiving your symposium suggestions!

Also, please feel free to contact me in case you have any questions (sylvie.retaux@cnrs.fr).

On behalf of the scientific committee,

Sylvie Rétaux, Program Officer EED

https://evodevo.eu/about-euro-evo-devo/ – <sylvie.retaux@cnrs.fr>

Euro Evo Devo 2024

European Evolutionary Developmental Biology society meeting

June 25 - 28, 2024 in Helsinki, Finland

http://www.euroevodevo2024.fi/ https://twitter.com/-EED2024 https://ecoevo.social/@EED2024 EED Society <eed.soc@gmail.com>

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London Speciation Apr11

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 and by Oxford University Press

Accompanied by a Special Issue of the Evolutionary Journal of the Linnean Society: https://-academic.oup.com/evolinnean/pages/perspectives-on-speciation Attendance is possible in person or online - registration is required and in-person places are limited.

Details and registration at: https://-www.eventbrite.com/e/perspectives-on-speciation-hybrid-meeting-tickets-728342330517?aff=-oddtdtcreator Roger Butlin

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

Guest Professor 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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Madrid IBC PolyploidyHybridization Jul21-27

Dear colleagues, We are delighted to invite you to participate in the symposium entitled *“Polyploidy and homoploid hybridization as evolutionary drivers in Mediterranean plants” *within the 2024 IBC (International Botanical Congress) that will be held in Madrid from *21st to 27th July 2024*.

The proposed symposium < https://-ibcmadrid2024.com/index.php?seccion=-3DscientificArea&subSeccion=-3DdetailSymposiums&idCom=MTU3 > aims to provide a forum to discuss research about polyploidy and homoploid hybridization in the Mediterranean area. It will offer a unique opportunity to bring together researchers with recognized experience in the topic, able to discuss from different backgrounds and perspectives. Given that these processes are main drivers for speciation and diversification of the Mediterranean flora, this subject is of crucial interest for botanists as well as for evolutionary biologists and ecologists interested in plant evolution. We are therefore convinced that this symposium will attract many participants that will promote an enriching exchange of ideas on the topic.

Abstract submission deadline for *oral presentations* in symposia: *30th November 2023.* Abstract submission deadline for *posters*: 1st February 2024.

Please find all the necessary information regarding abstract submission on the conference website < https://ibcmadrid2024.com/index.php?seccion=-3DscientificArea&subSeccion=3DabstractGuidelines > .

We are looking forward to receiving your submissions for talks and posters! If you have any questions about the symposium, please contact any of us (Nï¿½lida Padilla-Garcï¿½a, nelidam@usal.es; Blanca Rojas-Andrï¿½s, rojasabm@usal.es; Montserrat Martï¿½nez-Ortega, mmo@usal.es). We also appreciate any help spreading the word.

All the best,

Blanca, Montse & Nï¿½lida

nelidapg@gmail.com

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golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

Online ESEB STN Speciation Nov7

Dear colleagues,

The next instalment of the online seminar series organised by the ESEB-funded STN network ≪ Integration Of Speciation research ≫ ([https://speciation-network.pages.ist.ac.at/]) will be held on 07 November 2023, 9 am CET.

The upcoming session addresses the topic of "Species interactions and speciation". We welcome speakers Astrid Groot (Universiteit van Amsterdam, Netherlands) and Tatiana Giraud (CNRS Universite Paris-Sud, France).

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/66304347032 Talks (but not the discussion session) are recorded and made available here: https://www.youtube.com/channel/-UClEkDdE_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 EvolutionaryNovelty Oct18

PhilInBioMed Seminar Alan Love (Minnesota) and Gunter Wagner (Yale)"The Hierarchical Basis of Serial Homology and Evolutionary Novelty" October 18th, 2023, 5pm (Paris time, UTC+2) This talk will be online Alan Love < https://sites.google.com/umn.edu/alan-c-love/home > is John M. Dolan Professor of Philosophy at the University of Minnesota (USA) and Director of the Minnesota Center for Philosophy of Science. His research focuses on conceptual issues in biology and has concentrated on evolutionary developmental biology (Evo-devo), developmental biology, molecular biology, and paleontology.

Günter Wagner < http://campuspress.yale.edu/-wagner/ > is a Professor of Ecology and Evolutionary Biology at Yale University < https://medicine.yale.edu/-bbs/people/gunter_wagner-2.profile >, USA and at the Department of Evolutionary Biology, University of Vienna. His main research interest is the evolution of gene regulation as it pertains to the origin of evolutionary novelties.

Both are members of the PhilInBioMed Network < https://www.philinbiomed.org/network/ >. All details here: https://www.philinbiomed.org/event/alan-love-gunter-wagner/ *Abstract*

Given the pervasiveness of gene sharing in evolution and the extent of homology across the tree of life, why is everything not homologous with everything else? The continuity and overlapping genetic contributions to diverse traits across lineages seem to imply that no discrete determination of homology is possible. Although some argue that the widespread overlap in parts and processes should be acknowledged as "partial" homology, this threatens a broad base of presumed comparative morphological knowledge accepted by most biologists. Following a long scientific tradition, we advocate a strategy of "theoretical articulation" that introduces further distinctions to existing concepts to produce increased contrastive resolution among the labels used to represent biological phenomena. We pursue this strategy

by drawing on successful patterns of reasoning from serial homology at the level of gene sequences to generate an enriched characterization of serial homology as a hierarchical, phylogenetic concept. Specifically, we propose that the concept of serial homology should be applied primarily to repeated but developmentally individualized body parts, such as cell types, differentiated body segments, or epidermal appendages. For these characters, a phylogenetic history can be reconstructed, similar to families of paralogous genes, endowing the notion of serial homology with a hierarchical, phylogenetic interpretation. On this basis, we propose a five-fold theoretical classification that permits a more fine-grained mapping of diverse trait-types. This facilitates answering the question of why everything is not homologous with everything else, as well as how novelty is possible given that any new character possesses evolutionary precursors.

If you'd like to attend, please contact Thomas Pradeu <thomas.pradeu@u-bordeaux.fr>.

Sincerely,

Thomas.

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 Hoffman Martinot 33076 Bordeaux & 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

*Recent publications: * - Reuniting philosophy and science to advance cancer research < https://doi.org/-10.1111/brv.12971 > (*Biological Reviews*, 2023) - The origin of RNA interference: Adaptive or neutral evolution? < https://doi.org/10.1371/journal.pbio.3001715 > (*PLoS Biology* 2022) - Cancer's second genome: Microbial cancer diagnostics and redefining clonal evolution as a multispecies process < https://doi.org/10.1002/-bies.202100252 > (*BioEssays*, 2022) - Redrawing therapeutic boundaries: microbiota and cancer

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Online EvolutionBehavior Oct24

Animal Behavior , Evolution and Conservation

FINE SEMINAR ANNOUNCEMENT

24th October, O. Berger-Tal, D. T. Blumstein, A. Greggor and J. Swaddle

When: 24th October, 45 min presentation starts at 1100 NYC / 1700 Paris. The Zoom link will be opened at 1045 NYC / 1645 Paris. Following the seminar, there will be an hour of discussion (Q&A).

Summary: In a rapidly changing world, an individual's behavior is a key response to the changing environment, and it may permit individuals, populations and species to survive, and sometimes even thrive, in human-dominated landscapes. Conservation behavior is a field focusing on applying insights from behavioral ecology research to conservation and management.

Discussion: Each of the panelists will discuss three of the following six questions contributed by the hosts and the students Lindelani Makuya (Succulent Karoo Research Station and Wits University, South Africa), Siya Sangweni (Succulent Karoo Research Station and Wits University, South Africa) and Thomas Baratta (Italy; volunteer at the Succulent Karoo Research Station, South Africa).

1. What can 'I' as a behavioral biologist do to contribute to conservation successes?

2. How can we effectively communicate the findings of animal behavior studies to policymakers, the public, and local communities?

3. How do field studies on movement behaviour and technological advancements (e.g., remote sensing and tracking devices) contribute to conservation?

4. Give one empirical example from your studies on animal behavior that were implemented in conservation actions.

5. Are there examples of behavioral interventions in which behavioural traits have been manipulated to address a condition concern (e.g., pre-release predator training, etc.)?

6. We know that there are some excellent long-term datasets with behavioral data (+10 years). How can these datasets be useful to conservation?

How to attend:

YouTube channel. https://www.youtube.com/channel/-UClXFO1pLpCTBy7vSwLWH-GA This option allows you to view the seminar live (or at a later time), but not engage directly in the discussion (only through the chat function in YouTube).

Zoom: https://yale.zoom.us/j/98287364333 Meeting ID: 982 8736 4333

The Zoom link will be opened at 1045 NYC / 1645 Paris.

Suggested Readings:

Berger-Tal O., T. Polak, A. Oron, Y. Lubin, B.P. Kotler & D. Saltz. (2011). Integrating animal behavior and conservation biology: A conceptual Framework. Behavioral Ecology, 22:236-239.

Greggor, A.L., O. Berger-Tal, D.T. Blumstein, A. Lisa, C. Bessa-Gomez, B.F. Blackwell, C.C. St. Clair, K. Crooks, S. de Silva, E. Fernandez-Juricic, S.Z. Goldenberg, S.L. Mesnick, M. Owen, C.J. Price, D. Saltz, C.J. Schell, A.V. Suarez, R.R. Swaisgood, C.S. Winchell, & W.J. Sutherland. (2016). Research priorities from animal behaviour for maximizing conservation progress. Trends in Ecology and Evolution, 31:953-964.

Greggor A., O. Berger-Tal & D.T. Blumstein. (2020). The rules of attraction: the necessary role of animal cognition in explaining conservation failures and successes. Annual Review of Ecology Evolution and Systematics, 51:483-503.

Carsten Schradin <carsten.schradin@iphc.cnrs.fr>

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Online HumanGenomicDeletions Oct25

Dear colleagues,

The next seminar of the CIGENE Autumn series takes place next Wednesday 25th October, 12:00-12:40. See details below.

Speaker: Alber M. Aqil, University of Buffalo, New York, USA

Title: Evolutionary and functional characterization of genomic deletions in humans

Abstract: A systematic characterization of the function and evolution of structural variants remains an imperative exercise. Here, we show that balancing selection is a significant evolutionary force responsible for the maintenance of ancient deletion polymorphisms, and provide a functional characterization of these deletions. However, many deletions are not in strong linkage-disequilibrium (LD) with single nucleotide variants (SNVs), precluding such functional characterization. To solve this problem, we discuss a new methodology that uses a combination of SNVs weakly in LD with a deletion to impute the deletion, thereby allowing investigation into the function of many more deletions.

Zoom link: https://nmbu.zoom.us/j/67064421833 Hope to see you there.

More information on future seminars in this series is available on the CIGENE website.

Kind regards,

Junsoung Kwak

junsoung.kwak@nmbu.no

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Online SORTEE Oct17-18

The SORTEE conference is around the corner

We are one week away from the conference. Register and gain access to a special screening!

Dear Colleague,

We are one week away from the third conference of the Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology (SORTEE). The conference will be held virtually from

17 October 0700 UTC to 18 October 0830 UTC, and will run continuously in order to cover all time zones.

To register, please go here. The conference is free for SORTEE members (and we are very accommodating, so please check out all the different payment options!)

Schedule available here! You can access the events' details and convert the program to your local time zone.

The conference will showcase:

Unconferences: Facilitated discussions of ideas for how to make ecology, evolutionary biology, and related disciplines more open, reliable, and transparent. Facilitation involves moderating the conversation with

ideas and examples, but there are no formal presentations.Hackathons: Group projects with well-defined goals (papers, techniques, software, protocols, organizations, etc.).Workshops: Facilitators will teach tools for implementing open, reliable, and transparent research practices. As part of our exciting lineup, we are also thrilled to announce a special screening of a movie centered around open data and SORTEE entitled "The Effort to Remember". You do not want to miss it!

If you have any questions about the conference do not hesitate to contact us at conf.sortee@gmail.com

We hope to see you in next week.

Sincerely, The SORTEE Conference Committee

Disclaimer: We use flodesk to manage our emails. This email service collects analytical data on how people handle the emails we send. If you are uncomfortable sharing that information with us, please feel free to unsubscribe from this list. We value transparency on everything we do, and unfortunately there is no way to opt-out of this system.

SORTEE conference committee <conf.sortee@gmail.com>

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Online SSE ForMandarinSpeakers Nov11

SSE International Symposium for Mandarin Speakers in East and Southeast Asia

Saturday, 11 November, 10:00 - 15:15 China Standard Time (UTC+08:00) Conducted via Zoom Free - register by 12 November

This is a free bilingual symposium where participants will hear from featured speakers Bing Yang, Shengnan Zhang, Xin Dang, Yun Hsiao, Huang Xianting, Qi Liu, Kai Wei, and Shu-Miaw Chaw. Following the talks, join a discussion of the challenges and opportunities of doing evolutionary biology research in East and Southeast Asia.

Participants can gain insights on publishing in Evolution during a panel with Associate Editors Jen-Pan Huang and Suhua Shi, and the Evolution English Language Support Program editor Sishuo Wang on November 13 at 10:00 China Standard Time (UTC+08:00).

This symposium and panel are part of the SSE International Symposia Series. More information about the symposium speakers, schedule, and panel is available on the SSE website: https://-www.evolutionsociety.org/international-symposia-series/third-international-symposium-for-mandarin-speakers-in-east-and-southeast-asia.html Register by November 10 for free to reserve your spot!

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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

PuertoVallarta SMBE2024 CallForSymposiumProposalsOpen

Dear Colleague,

SMBE2024 Puerto Vallartahas now opened the call for symposium proposals!

Proposals are due Nov 10th.Results will be announced Dec 6th!

Please visit the 2024 conference website for more information: https://www.smbe2024.org/ Best Regards,

SMBE Business Office

#SMBE24

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

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SanDiego PAG31 FelineCaninePaleogenomics Jan12-17

Dear colleagues,

We are excited to announce the call for abstracts for the 'Cat and Dog', 'Paleogenomics', and 'Domestication' sessions at PAG 31 from January 12-17, 2024.

Like last year, in addition to our joint dinner on Sunday night, we are joining forces for abstract submissions so that we can ensure a diverse representation of topics and people at our three linked sessions.

If you are interested in submitting an abstract, please fill out this Google Form before October 23rd, 2023: https://docs.google.com/forms/d/e/-1FAIpQLSeyvHSyNWAJlxzYDAZudyyRp_mYNVB6LRXXNqBJYC9DAwFKUA/-viewform We will notify you of your acceptance that week. As a reminder, the early bird registration ends on October 31st, but if you are selected as a speaker, you will be eligible for early bird registration after the deadline. We encourage you to register as early as possible if that is an option.

Feel free to contact any of the organizers (contact details below) should you have any questions.

Please feel free to share the call for abstracts with anyone who might be interested.

All the best, Cat & Dog: Ellie Armstrong & Laurent Frantz (ellieearmstrong@gmail.com, laurent.frantz@lmu.de) Paleogenomics: Greger Larson (greger.larson@arch.ox.ac.uk) Domestication: Emily Warschefsky & Sarah Turner (sarah.turner-hissong@bayer.com)

Laurent Frantz <Laurent.Frantz@palaeo.vetmed.uni-muenchen.de>

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SanDiego PAG31 PopConservGenomics Jan12-17

Call for Abstracts Population and Conservation Genomics Workshop Plant and Animal Genome 31 (PAG 31) International Conference http://www.intlpag.org/-31/ January 12-17, 2024 Town and Country Convention Centre, San Diego, California

The annual Population and Conservation Genomics workshop will be held at the Plant and Animal Genome 31 (PAG 31) International conference. You are invited to attend this Workshop and submit abstracts for oral presentations on any population and conservation genomics aspect of both plants and animals. The topics may include (but not limited to): population genomic diversity and structure; molecular evolution; pangenomes; phylogeography; landscape genomics; seascape genomics; natural selection and local adaptation; ecological and evolutionary genomics; population epigenomics; paleogenomics; eDNA; bioinformatics in population and conservation genomics; population genomics of speciation; metapopulation genomics; application of genomics in breeding, forensics, biogeography, demography inferences, and conservation and management of genetic resources; genomic effects of domestication, management practices, fragmentation, bottlenecks, climate and environment change, and transgenic deployment; and gene conservation; etc.

The Workshop will have 2 sessions (January 13 and January 15) with a provision for 12 invited speakers. Most of the invited presentations will be selected from the submitted abstracts. Please send your abstract of no more than 250 words by e-mail to Om Rajora (Om.Rajora@unb.ca) as an attached Word file no later than November 3, 2023. Please make sure to include complete affiliations of all authors and email address of the corresponding author. You will be notified by November 10, 2023 whether your abstract has been selected for an oral presentation. Thereafter, the selected presenters will need to submit their abstract to the PAG website. Authors whose abstracts are not selected for oral presentations are highly encouraged to present a poster at the conference.

Inquiries and Abstract Submission

For information and questions regarding the Population and Conservation Genomics workshop, please contact

Om Rajora at the following coordinates.

Dr. Om P. Rajora University of New Brunswick Fredericton, NB E3B 5A3, Canada. E-mail: Om.Rajora@unb.ca Tel: (506) 458-7477

Om Rajora <om.rajora@unb.ca>

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Singapore AsiaEvolution Dec16-18

Dear Colleagues,

The 3rd Asia Evolution (AsiaEvo) Conference will be held in Singapore, at the National University of Singapore from December 16-18, 2023.

The 3rd AsiaEvo Conference ??? International Conference on Evolution in Singapore phylorf.org

We would like to invite you to submit an abstract for our symposium, entitled:

"Novel Insights Regarding Genome Architecture Evolution in the Arthropoda"

The Abstract Submission Deadline has been extended to: October 31, 2023 Abstract Submission Site: https://-/phylorf.org/ Full list of Symposia: An evolutionary perspective on pollinator biodiversity, systematics, and conservation Behavioral evolution in vertebrates: diversity, genomics, and mechanisms Early evolution of vertebrates from evo-devo and paleontological perspectives Fitness landscapes bridge evolution and molecular biology Frontiers in vertebrate functional-morphological evolution studies Genetics of adaptation and evolution of novel traits Genomic diversity in nonequilibrium populations Green computational technologies for evolutionary analysis Impact of introgressive hybridization on tropical diversification Marine Evo-Devo: new frontiers from emerging marine model systems Novel insights regarding genome architecture evolution in arthropods Paleo- and macro- ecology in tropical Asia The evolution of invertebrate sensory ecology and behavior The genomics of adaptation and speciation Virus evolution: from basic research to public health applications Why sex? Insights from asexual genomes Open Category

Carol Eunmi LEE, Ph.D. Professor

Department of Integrative Biology 430 Lincoln Drive, Birge Hall University of Wisconsin Madison, WI 53706 carollee@wisc.edu

http://carollee.labs.wisc.edu Carol Eunmi LEE <carollee@wisc.edu>

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SorbonneU EvolutionOfAgeing Oct19

Dear colleagues,

Please find below the final, updated advertising and invitation to attend the 2nd edition of the colloquium "Expanding evolutionary theories of ageing to take into account symbioses and interactions throughout the Web of Life".

Feel very free to advertise by forwarding to anyone you may think would be interested.

The event is free, hybrid (attendees can join either in person or virtually) but upon registration by email before October 14th to : epbapteste@gmail.com. When emailing, please let me know whether you would prefer to attend virtually or in person (40 seats, on a first serve, first come basis, for in person attendance).

It will take place within the University Jussieu, Jussieu Campus, in the "salle de Conférence TEB", at the 2nd floor in between the towers 46/56, on October 19th, 2023.

Kind regards,

Eric Bapteste

Updated program:

This colloquium will seek to explore traditional limits to the main evolutionary theories of ageing and to propose novel findings to improve our understanding of how, why and when organisms age in the Web of Life. It will question the explanatory scope and the phylogenetic scope of at least three leading, stimulating evolutionary theories of ageing, namely the Mutation Accumulation theory, the Antagonistic pleiotropy theory and the Disposable Soma theory. Indeed, these theories share a common blindspot. The first two have been developed under the traditional framework of population genetics, and therefore are logically centered on the ageing of individuals within a population or within a species. The third one is usually applied to explain ageing within a species. Consequently, these theories do not explicitly model the countless interspecific and ecological interactions,

such as symbioses and host-microbiomes associations, however well-known to affect many organismal traits as well as organismal evolution. Moreover, these theories have been mostly developed with animal models in mind, mainly those with a neat germen/soma distinction, such as mice and humans, and for this reason all these theories may benefit from novel conceptual developments to further justify and possibly expand their application scope towards other taxa, such as unicellular organisms (protists, bacteria and archaea), which have long been considered, by default and probably erroneously, as non-senescent, and such as extremely long lived taxa, which owing to their unusual biology may still have some lessons to contribute to these theories.

Definitive program

The current theoretical framework and some of its limits

Pr. Annette Baudisch (University of Southern Denmark, DK) ≪ How to bridge the gap between determined modes of demographical ageing - such as slow and negligible senescence among testudines- and biological ageing affecting organisms?≫

Dr. Jean-François LemaÃtre (UMR CNRS 5558, Laboratoire Biométrie et Biologie Ãvolutive, Université Claude Bernard, Lyon, France) ≪ Open issues associated with sex differences in ageing ≫

Ageing through the prism of interactions

Pr. Dan Franks (Departments of Biology and Computer Science, The University of York, UK) ≪ How social organization affects ageing : the case of post-reproductive female killer whales and beyond. ≫

Dr. Samuel Pavard (MNHN, Paris, France) ≪ What are the connections between the evolution of human ageing and human sociality ? ≫

Pr. Susanne Foitzik (Johannes Gutenberg University Mainz, Germany) ≪ Parasite-induced lifespan prolongation and its molecular regulation in insects ≫

Pr. Laurent Keller (Social Evolution Unit, Chesières, Switzerland) ≪ Challenges to understand ageing in the light of social structures and kin selection≫

Alternative models to study ageing

Pr. Wolfgang Wagner (Uniklinik RWTH Aachen, Germany) ≪ Can epigenetics govern ageing and how? ≫

Pr. David Gems (Institute of Healthy Ageing, University College London, UK) ≪ Connections between developmental programs and ageing, the notion of quasi-programs and how questioning hallmarks of ageing may help us improve our understanding of ageing ≫

Pr. Joao Pedro de Magalhaes (virtual attendance) (University of Birmingham, UK) ≪ Ageing as a software design flaw and its evolutionary aspects≫

Dr. Michael Rera (Centre de Recherche Interdisciplinaire, INSERM UMR U1284, 75004 Paris, France) "Some thoughts on the debates about the programmed vs non programmed nature of ageing"

Organisational complexity and ageing

Dr. Yifan Yang (Weizmann Institute of Sciences, Israel) ≪ Latest discoveries about bacterial ageing. ≫

Dr. Chiara Sinigaglia (Observatoire Océanologique de Banyuls, Sorbonne Université, France) ≪ Ageing in Cnidarians. ≫

Microbiome and host ageing

Dr. Eric Bapteste (UMR ISYEB, CNRS, Paris) ≪ Natural History of Ageing: how old is ageing? ≫

Dr. Claudio Franceschi (University of Bologna, Italy) ≪The evolutionary

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SSE IntlSymposiaForMandarinSpeakers Nov11

The Society for the Study of Evolution (SSE) is pleased to announce the call for speakers for the International Symposium for Mandarin Speakers in East and Southeast Asia on November 11, 2023. SSE invites Mandarin-speaking evolutionary biologists of all career stages in East and Southeast Asia to apply to share their research in this free, virtual event.

Instructions for how to apply can be found here: http://www.evolutionsociety.org/international-symposia-series/third-international-symposium-for-mandarin-speakers-in-east-and-southeast-asia.html Deadline to apply: September 29, 2023

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*Kati Moore*she/her *Communications Manager* *Society for the Study of Evolution* communications@evolutionsociety.org www.evolutionsociety.org SSE Communications <communications@evolutionsociety.org>

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StAndrews UKPopGroup Jan8-10 AbstractsOpen

Population Genetics Group 57 at St Andrews is now accepting abstract submission. Please use this link to submit your abstract:

https://app.oxfordabstracts.com/stages/6967/submitter As is typical for Pop Group there will be no 'hard' selection so long as we have sufficient spaces, but we will check for appropriateness. Both oral and poster submissions are welcome. Pop Group is very informal and welcoming, so we encourage everyone attending to consider making a presentation.

We strongly encourage people to submit abstracts by 3rd December so we can arrange the timetable. Acceptance of submissions after then cannot be guaranteed.

Further details about Pop Group

The Population Genetics Group (or 'Pop Group') is an annual meeting of population and evolutionary geneticists held in the UK since 1968. The meetings have been influential in promoting population and evolutionary genetics in the UK and elsewhere. The 57th Pop Group meeting will be held in University of St Andrews, Scotland from 8-10 January 2024. This will follow the usual practise of being a relaxed and fun meeting, mainly featuring talks from ECRs. Everyone is welcome.

Please see our web site: https://www.populationgeneticsgroup.org.uk/ The deadline for registration and abstract offers is 10th December.

We look forward to welcoming both familiar and new faces in St Andrews in January.

Enquiries can be sent to PopGroup57@st-andrews.ac.uk

The PopGroup57 organising committee.

Population Genetics Group 57 PopGroup57@st-andrews.ac.uk

Mike Ritchie Centre for Biological Diversity, School of Biology,

University of St Andrews, Fife. Scotland KY16 9TH UK I do not expect people to answer e-mails outside of office hours

Michael Ritchie <mgr@st-andrews.ac.uk>

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ing@mcmaster.ca)

Toulouse EnvironmentalGenomics Feb14-16

Dear all,

France Génomique and the Research Group "Environmental Genomics" (GDR GE) are pleased to inform you of their upcoming Symposium on Environmental and Agronomical Genomics which will be held in Toulouse, France from February 14 to 16, 2024.

Topics Covered Genomics of plants and animals and their microbiota Exploring diversity and evolution of Life Exploring ecosystems using metagenomics Genomics of biological interactions: holobionts, pathogens, symbionts Technological advances: producing and analyzing genomic data Pangenome and structural variants Ancient DNA and paleo-environments

Monitoring of ecosystems functioning and health / Eco-exposome Environmental genomics and collaborative science, a window on society

Confirmed Speakers A. Baud, CRG, Barcelona, Spain L. Orlando, CAGT, Toulouse, France J. Reveillaud, INRAE, Montpellier, France A. Stamatakis, HITS, Heidelberg, Germany S. Sunagawa, ETH, ZÃÂ$\frac{1}{4}$rich, Switzerland C. Voolstra, University of Konstanz, Germany C. Welte, Radboud University, The Netherlands

Registration and call for abstracts are now open! All information here: https://eags2024.sciencesconf.org/ Abstract submission deadline: December 15, 2023 Registration deadline: January 12, 2023 Travel grants available for students and early career researchers!

We look forward to seeing you all in Toulouse, The OC (eags2024@sciencesconf.org): Marie-Thérése Bihoreau,France Génomique

Lucie Bittner,ISYEB, Paris Denis Faure,CNRS, I2BC, Gif sur Yvette Denis Milan,INRAE, Genotoul, GeT-PlaGe, Toulouse Eric Pelletier, Genoscope, CEA, Evry Aude Perdereau,France Génomique, CEA, Evry Jean-Christophe Simon,INRAE, IGEPP, Rennes

Patrick Wincker,Genoscope, CEA, Evry

Aude Perdereau <aperdere@genoscope.cns.fr>

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Verbania Cladocera Oct6-12 2024

Dear colleagues,

after long disruption by the covid-19 pandemics, we are reviving the plan to organize the Cladocera XII Conference in Verbania, Italy. This conference will continue in the tradition of the Symposia on Cladocera.

The meeting will thus cover a wide range of topics related to the biology of cladocerans (including our beloved /Daphnia/) as model organisms, covering their ecology, evolutionary biology, genomics, interaction with environmental stressors, diversity, biogeography, systematics, etc.

The conference website where you find more information is alive at www.cladocera2024.org . When: October 6 to 12, 2024

Where: Hotel Il Chiostro, Verbania, Italy

Registration will become available in early 2024. In case of interest in the meeting, subscribe for the conference newsletter (https://www.cladocera2024.org/-newsletter/) not to miss any important info!

Please, spread this information to all colleagues who might find this event interesting, and mark the conference dates in your schedules!

With regards

Piet Spaak & Adam Petrusek

Cladocera XII organisers

info@cladocera2024.org

Adam Petrusek <petrusek@cesnet.cz>

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GradStudentPositions

AMNH NewYork ComparativeBiology

We are now accepting applications for our Ph.D. in Comparative Biology Program and Graduate Fellowships Program at the American Museum of Natural History's Richard Gilder Graduate School for Fall 2024.ï¿½ Deadline: December 15, 2023.

The AMNH Ph.D. Program in Comparative Biology is training the next generation of biologists through an integrative approach focused on the history, evolutionary relationships, and interactions among species. It builds on the Museum's strength and experience in research and training, educating a new generation of scientists to become leaders in understanding the history and diversity of life on Earth and in disseminating their work in ways that will support advances in biological research, human health, biodiversity conservation, and other related fields. This is an accelerated program, designed for students to complete their degrees in four years. The Richard Gilder Graduate School will typically provide full financial support to students matriculating in the Comparative Biology Ph.D. Program.

We also offerï¿½Ph.D. Graduate Fellowshipsï¿½for students interested in earning a Ph.D. at one of our partner institutions.ï¿½ The AMNH Graduate Student Ph.D. Fellowship Program is an educational partnership with selected universities, dedicated to the training of Ph.D. candidates in those scientific disciplines practiced at the Museum. Our current collaborations are with Columbia University, City University of New York (CUNY), Cornell University, Stony Brook University, and New York University (NYU). The host university in which the student enrolls exercises educational jurisdiction over the students and formally awards the degree. In these partnership programs, at least one Museum curator must serve as a graduate advisor, co-major professor or major professor, and adjunct university faculty member. Each student benefits by having the staff and facilities of both the university and the Museum to support his/her training and research. To be eligible for the AMNH Graduate Ph.D. Fellowship, students must apply to both the host

University's Ph.D. program and to the AMNH Graduate Student Ph.D. Fellowships Program. Students already matriculated in a Ph.D. program are not eligible to apply; only new, first-time Ph.D. applicants will be considered.

Students who plan to apply to both the RGGS Comparative Biology Ph.D. Program and to the Graduate Fellowship Program complete one single application, indicating on the application the program(s) to which they wish to apply. Students applying for the Graduate Fellowship must also apply for admission to at least one Ph.D. Program at one of the Museum's Partner Institutions.

Admission offered for the fall semester only

Applicants are strongly encouraged to contact a member of the faculty prior to application (see: https://www.amnh.org/research/richard-gilder-graduate-school/faculty)

For more information and to apply, please go to: https://www.amnh.org/research/richard-gilder-graduate-school/academics-and-research/fellowship-and-grant-opportunities/doctoral-student-fellowships
Anna Manuel <amanuel@amnh.org>

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Bialowieza Poland BisonEvolution

Dear Colleague, I would be very grateful for sharing our call again.

Thank you very much in advance Ma??gorzata Tokarska

We seek an evolutionary biologist for a PhD position within a grant ???Historical morphometrics of the European bison skulls and its association with species inbreeding increase???. The project will be realized at the Mammal Research Institute, Polish Academy of Sciences, Bia??owie??a, Poland.

The summary and objectives of the project:

European bison is a species of unique demographic history. It has been through an extremely severe bottleneck in the 1920s. The whole contemporary population originates from a meager group of founders. Just two of them turned out to be predominant, and their share in the contemporary gene pool is above 80%. The effects are extremely low genetic variation (W??jcik et al., 2009; Tokarska et al., 2009; Tokarska et al., 2011) and highly increased inbreeding level, reaching 75% (Pertoldi et al., unpublished). Although increased inbreeding is regarded as an important factor affecting the viability of a population, resulting in lowered genetic differentiation and decreased fitness, its impact on the European bison seems milder than might be expected. Long term fertility coefficients are stable and satisfactory (Krasi??ska i Krasi??ski, 2017) and no indisputable inbreeding depression symptoms are observed (Tokarska et al., 2011). The reported potential inbreeding depression symptoms are related to skeleton conformation. Baranov et al. (1997) reported signs of developmental instability of skull morphology in the European bison skulls and indicated developmental instability as essential for characterizing the condition of the population. Analyses of fluctuating symmetry of the European bison, associated with genetic diversity (Makowiecka, 1994) suggest that the Bia??owie??a line of the European bison had the lowest, unbeneficial, developmental instability as the result of inbreeding. Until recently, the only method of estimating inbreeding level was pedigree analysis ??? a rough and inaccurate method. The development of genomic techniques enables precise calculation of inbreeding level using high density SNP (single nucleotide polymorphism) set. This method has been successfully used in the European bison studies and allowed for the first, accurate inbreeding calculations, using ROH (Runs of Homozygosity) analyses (Iacolina et al., 2016, Pertoldi et al., unpublished) This project enables the actual effect of extreme inbreeding on skull conformation in a historical context to be estimated, by association of genomic and morphometric data in one of the most inbred mammals known ??? the European bison. We will use hundreds of 3D skull scans from European collections and museums and juxtaposition them with their inbreeding level information based on SNP markers. The objective of the project is to specify whether and in what extent inbreeding level shaped the skull conformation of European bison individuals by answering three questions: Has the morphometry of the skull fluctuated over time? Has the growing inbreeding of the European bison influenced its skull morphometry? If yes, what morphometric skull features have been affected by growing inbreeding?

The working environment

Mammal Research Institute, Polish Academy of Sciences (MRIPAS) in Bia??owie??a, funded in 1952, conducts research in the field of ecology, ethology, morphology, population genetics as well as population management and conservation of mammals and other terrestrial vertebrates. The mission of the Institute is to acquire, advance, and disseminate knowledge of natural patterns and processes in order to improve the

scientific basis for effective nature conservation activities and sustainable development. We focus mainly on Bia??owie??a Primeval Forest (UNESCO Biosphere Reserve and World Heritage Site) as a study area, but also on other regions of Poland and Europe. The Institute employs 60 people, including researchers, PhD students, and qualified technical and office staff.

We provide:

1.Work in a friendly research team, in a well-equipped and organized laboratory with support and supervision of competent colleagues;

2.The possibility of effective scientific development through cooperation with the best world research centres;

3.Participation in an interesting scientific project with travelling opportunities;

4.The possibility to apply for inexpensive accommodation in MRI PAS flats.

PhD student tasks and duties within the project

Performing morphometrical measurements on modern and historical European bison skulls. Performing morphometrical analyzes. Presenting results and preparing drafts of scientific articles.

Requirements:

1. MSc degree in biology,

2. At least basic experience in morphometric research (acquaintance with Landmark, Checkpoint or other programs welcome),

3. Team cooperation skills,

4. Fluent spoken and written English,

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BournemouthU Metabarcoding

Dear Colleagues,

We have a PhD position available in our lab to study the use of diversionary feeding in badger to increase breeding success in wading birds.

If you are interested in the position please apply using the following link: PhD Studentship - Diversionary feeding of badgers to increase breeding success of wading birds | Bournemouth University < https://www.bournemouth.ac.uk/study/courses/-phd-studentship-diversionary-feeding-badgers-increase-breeding-success-wading-birds >

Over the last two decades, breeding populations of wading birds (henceforth 'waders') have declined globally due to predation, habitat degradation and loss (Jellesmark et al. 2022), with rates of decline in the UK amongst the highest recorded (Brown 2015). Predation by generalist mammalian species such as foxes (Vulpes vulpes) or badgers (Meles meles) during the breeding-season is currently believed to have a major impact on these endangered populations (Macdonald & Bolton 2008). Badgers are opportunistic omnivores with around 65 to 70% of their diet comprising of earthworms. However, badgers are behaviourally plastic foragers, exploiting various resource patches in time and space according to their availability, and may redirect foraging effort to compensate for earthworm unavailability including via direct predation (Kruuk and Parish, 1981). Furthermore, as badgers mostly predate earthworms, they forage predominantly on the ground in habitats suitable for ground-nesting birds, increasing the risk of opportunistic predation of waders during breeding (Ward et al. 2022).

In the UK, bird remains have been found in 7.47% of badger faeces (Hounsome & Delahay 2005). While this represents a relatively small proportion of badger diet overall, badger predation pressure on avian populations may constitute a serious threat, especially if such populations are already small or otherwise vulnerable, and/or predation is concentrated over a short time period during breeding (Roos et al. 2018). Further, badger populations are significantly increasing in the UK hence future predation impacts may be compounded (Brown et al. 2015). Badgers are legally protected in the UK under the Protection of Badgers Act 1992, hence culling of badgers is not an appropriate management strategy, plus culling badgers could lead to the local increase of other key wader predators (Ward et al. 2022) such as hedgehogs and foxes (Trewby et al., 2008; 2014). Diversionary feeding is a conservation management strategy that has been successful in reducing the predation pressure on waders by raptors and foxes (Smart and Amar 2018; Finne et al. 2019, Mason et al. 2021). It is a special form of supplementary feeding to divert the activity of a target species from predating waders without the intention of increasing the density of the target species (Kubasiewicz et al. 2016). As badgers are opportunistic predators of ground nesting birds this

strategy could have a positive outcome, especially as both badger and waders are protected in the UK and alternative management options are limited.

The proposed research would be carried out on the Game & Wildlife Scottish Demonstration Farm, Auchnerran, in Aberdeenshire, Scotland (hereafter 'Auchnerran'). This is a grass- dominated farm of 484 ha comprising approximately 60% grassland and 25% woodland and scrub, with the remainder in forage crops, game cover or permanent wetland. Waders breed in large numbers at Auchnerran and breeding success of lapwing, oystercatcher and curlew, has been closely monitoring using trail cameras since 2018. It has become increasingly clear that wader breeding productivity at Auchnerran is now limited mostly by predation of eggs and young, with research showing that up to 20-22% of all lapwing clutches monitored annually were predated by badger (Parish et al. in preparation). Consequently, badger activity has been monitored at the site since 2021 by using trail cameras, bait marking, and bait stations. The long-term knowledge of wader productivity at Auchnerran coupled with the monitoring of badger (location of setts, social group structure, territory mapping) make this particular site an ideal location to understand fine-scale badger feeding and ranging behaviour to assess how diversionary feeding can be used to support ground nesting bird conservation.

Best regards,

Emilie

Dr. Emilie Hardouin Deputy-Head of Department Life and Environmental Sciences Associate Professor in Conservation Genetics Bournemouth University Faculty of Science and Technology Fern Barrow, Poole House Talbot Campus, Poole, BH12 5BB, Dorset, UK

BU is a Disability Confident Employer and has signed up to the Mindful Employer charter. Information about the accessibility of University buildings can be found on the BU AccessAble webpages.

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CityUNewYork EvolutionaryBiology

The Calamari lab at the City University of New York (CUNY) seeks applicants for a PhD position to study the intersection between gene expression and regulation and anatomical variation in fossil and living animals. United by our focus on changes in gene expression and regulation during development, geometric morphometrics, and phylogenetic comparative methods, the successful applicant will join our ongoing efforts to understand the evolution of new morphology, especially horns, antlers, and other bony cranial outgrowths in even-toed hoofed mammals (cattle, antelopes, deer, giraffes, etc.).

The Calamari lab is located at Baruch College in Manhattan and works extensively with the facilities at the American Museum of Natural History (AMNH). The graduate student will have ample opportunities to join Calamari lab collaborations on a variety of morphological and genomics topics.

The ideal candidate will have some experience in programming related to bioinformatics (in particular single-cell/single-nucleus sequencing, high-throughput RNA sequencing, or ATAC sequencing) and wet lab experience in preparing histological slides of soft tissues and bone. Qualified applicants with backgrounds in biology, paleontology, or other related fields are welcome.

Potential applicants should contact Zachary Calamari (zachary.calamari@baruch.cuny.edu) with a description of their experience, research interests, and CV. The successful applicant will be enrolled full time at the CUNY Graduate Center in the Ecology, Evolutionary Biology, and Behavior subprogram of the Department of Biology. Applications to the CUNY Graduate Center to start in the Fall 2024 semester are due January 1, 2024. More information about applying to the program can be found here: https://www.gc.cuny.edu/Prospective-Current-Students/Prospective-Students/Admissions . The Calamari lab and CUNY are inclusive research communities; students from backgrounds underrepresented in STEM are strongly encouraged to apply.

Zachary Calamari, PhD Assistant Professor Department of Natural Sciences PhD Program in Biology Baruch College and the Graduate Center, CUNY Pronouns: he, him

Zachary Calamari <Zachary.Calamari@baruch.cuny.edu>

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ColoradoStateU EvolutionaryBiology

Several evolutionary biologists within the interdisciplinary ecology program at Colorado State University (CSU) are welcoming applicants for MS and PhD students to start Fall 2024. We provide outstanding education in evolutionary biology and ecology across a range of ecosystems, taxa, and subdisciplines. Our goal is to offer students strong training for professional success across a variety of career paths. In addition to the ecological core, we offer a specialization in human-environment interactions. Currently, we support a vibrant community of over 100 students. We are committed to creating a safe, welcoming and supportive environment.

The deadline for full consideration is December 1. Details are available here.

Many faculty members are open to taking students, and specific opportunities include:

Dr.Andrew Du working on paleoecology, paleoanthropology, human evolution, mammals

Dr.Emily Francis (joining CSU Jan. 1!) working on ecology and management of wildfire disturbance and forest structure

Dr.Chris Funk working on conservation genomics and evolutionary ecology

Dr.Dhruba Naug working on behavioral diversity and social behavior

Dr.Jen Solomon working on human dimensions of biodiversity conservation

Other faculty members are potentially open to taking students. Some of the general subjects include: bumblebee conservation, climate change, plant-insect interactions, wildlife and forest management, pollination on green infrastructure, the effects of drought and deluge events on plant communities, and soil organic matter and regenerative management.

Graduate student salaries are generally provided through faculty advisors in the form of research or teaching assistantships. Tuition is typically covered for students supported by assistantships and health insurance is available. A confirmed advisor is necessary for admission to the program, but not for application submission. Most students accepted to the program find advisors through their shared interests. Financial support is often in flux given pending grants, so there is no need to wait to see a particular position advertised. Advisors interested in accepting a student typically work with them to procure funding from various sources. Thus, we encourage prospective students to reach out directly to faculty members with expertise in your area of interest.

CSU is located in beautiful Fort Collins, on the foothills of the Rocky Mountains, and has been voted as one of the best places in the United States to live with easy access to outdoors activities, such as rafting, skiing, and rock climbing. This small, bike-friendly community has a vibrant art, music, and restaurant culture and is about hour from Denver, CO.

Colorado State University is an equal opportunity and equal access institution and affirmative action employer fully committed to achieving a diverse workforce and complies with all Federal and Colorado State laws, regulations, and executive orders regarding nondiscrimination and affirmative action.

If you have any questions, feel free to reach out to me, the director of the program, atruth.hufbauer@colostate.edu

“Hufbauer,Ruth” <Ruth.Hufbauer@colostate.edu>

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CPG Stockholm DeepTimePalaeogenomics

Two fully funded PhD student positions in DeepTime mammalian palaeogenomics based at the Centre for Palaeogenetics in Stockholm (Sweden)

PROJECT DESCRIPTION: The Department of Zoology at Stockholm University invites applications for two four-year PhD positions based at the Centre for Palaeogenetics in Stockholm. The PhD student positions will be funded through an ERC Advanced Grant (PrimiGenomes) awarded to Love Dalï¿½n. The overall project is aimed at investigating speciation, large-scale biogeographic processes and adaptive evolution in mammals during the Pleistocene, through palaeogenomic analysis of remains that are up to two million years old. One of the PhD student projects will be focused on small rodents, where examples of scientific questions

that will be addressed include whether morphological changes have primarily been driven by rapid adaptive evolution or extinctions/recolonisations, and to what extent past climate change have affected species demography. The second PhD student project will focus on several large mammal species, where examples of questions to investigate include the consequences of past environmental changes on range dynamics, and the importance of hybridisation for the formation of evolutionary lineages. The PhD students will be admitted in the subject area of animal population genetics, and will join the research group led by Love Dalï¿½n (see www.palaeogenetics.com/ld) at the Centre for Palaeogenetics located on the Stockholm University campus.

DEADLINE: 5 November 2023

MORE INFORMATION & APPLICATION SYSTEM: https://www.su.se/english/about-the-university/work-at-su/available-jobs/phd-student-positions-1.507588?rmpage=job&rmjob=22045&rmlang=UK
Love Dalï¿½n <love.dalen@zoologi.su.se>

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CRG Barcelona ComputationalModelsEvolution

I am writing to advertise a PhD position at the Barcelona Collaboratorium for Modelling and Predictive Biology/CRG Barcelona. This position offers an excellent opportunity for candidates with a background in physics, mathematics (or another discipline with a strong emphasis on computational modelling)to apply their skills to the fascinating field of evolutionary processes.

Excellent environment: the Barcelona Collaboratorium for Modelling and Predictive Biology is a space for computational and theoretical biology launched as a joint initiative of two leading life science institutes - the CRG and EMBL Barcelona. The PhD student will benefit both from the more specialised computational and theoretical focus of the Collaboratorium and the broader research portfolio at the CRG. Exciting science: evolution is ubiquitous in the natural world, and thus modelling evolution is of high relevance in theoretical biology and biological physics.With this research, we will gain a better quantitative understanding of variation, for example mutational changes in molecular structures, and investigate the interplay between variation and selection in evolutionary processes.Interdisciplinarity: The research relies on concepts from physics, biology, network science and mathematical/computational modelling of complex systems more broadly.Any questions?Please send me an email: nora.martin@crg.eu

Information on the position and how to apply can be found at: https://recruitment.crg.eu/content/-jobs/position/phd-student-computational-models-genotype-phenotype-maps-and-evolution Thank you very much!

Kind regards,

Nora Martin

Dr Nora Martin Independent Fellow CRG (Barcelona Collaboratorium for Modelling and Predictive Biology)

nora.martin@crg.eu

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Fribourg Switzerland BalancingSelection

The Flatt lab at the Department of Biology, University of Fribourg, Switzerland has an opening for a PhD student in Evolutionary Genetics to study fundamental questions about the maintenance of adaptive polymorphisms in natural populations by different forms of balancing selection.

THE PROJECT The PhD student will work on a new project, funded by the Swiss National Science Foundation (SNSF), focusing on chromosome inversions/"supergenes" in the ancestral African range of fruit flies (Drosophila melanogaster) and how they are maintained by balancing selection. The project entails an exciting combination of approaches spanning population genomics, bioinformatics, transcriptomics, phenotypic assays of fitness-related traits, experiments with population cages (mescosoms) both in the laboratory and outdoors, as well as field work.

The PhD student (and a Postdoc to be hired) will be embedded in a larger project team in the Flatt lab, involving a senior postdoc, a technician and several undergraduate students, as well as in close collaboration with our international project partners Rashidatu Abdulazeez (Ahmadu Bello University, Nigeria), Martin Kapun (Natural History Museum Vienna), Miyanda

Moonga (University of Zambia), Paul Schmidt (University of Pennsylvania), John Pool (University of Wisconsin), and others.

YOUR PROFILE We are looking for highly motivated candidates with a strong background in evolutionary biology and/or population genetics, and with a keen interest in combining experimental and computational work. Prior experience with population genomic analyses/bioinformatics and/or Drosophila evolutionary genetics would be a plus. Candidates should be self-motivated and driven by scientific curiosity; possess a strong work ethos; be able to work independently; have strong communication and interpersonal skills as well as the ability to integrate and work in a team.

THE WORK ENVIRONMENT Our lab and the Department of Biology offer a very friendly and stimulating work environment, with excellent conditions in terms of infrastructure, know-how, and collaboration. Fribourg is vibrant medieval university town with a large student population (https://www.unifr.ch/studies/en/-choose-fribourg/life-in-fribourg.html), situated close to the capital of Bern and the beautiful Swiss pre-Alps and Alps. For more information on our research see https:/-/www.unifr.ch/bio/en/research/eco-evol/flatt.html. For more information on the Department of Biology at Fribourg see: https://www.unifr.ch/bio/en/ *THE POSITION* Starting date by arrangement; the position is for up to a maximum of 4 years; salary according to institutional and SNSF guidelines (details upon request).

HOW TO APPLY Please send a motivation letter, CV, description of previous research, and the names and contact details of three references in a single pdf file to thomas.flatt@unifr.ch

Deadline: 5 November 2023.

Prof. Thomas Flatt Department of Biology University of Fribourg Chemin du Musée 10 CH-1700 Fribourg Switzerland

e-mail: thomas.flatt@unifr.ch phone: +41 26 300 8833 phone: +41 26 300 8850 (secretary)

https://www3.unifr.ch/bio/en/groups/flatt/ European Drosophila Population Genomics Consortium: http://-droseu.net/ FLATT Thomas <thomas.flatt@unifr.ch>

GriffithU Australia AncientDNA

Scholarship/Project name Deep time extinctions informed by DNA in Australian underwater caves

The opportunity We are currently looking for a PhD candidate to join our research team in the examination of cave sediments in Australia using ancient and environmental DNA (aDNA) techniques. The primary focus of this role is to reconstruct whole Australian fossil ecosystems using widescale genetic investigations of sediment and water samples from the unique submerged Mt Gambier cave deposits. The underwater deposits of Mt Gambier fill a critical gap in cave palaeontology and preserve exquisite specimens of megafauna species including the rare Propleopus, a giant carnivorous kangaroo, the giant short-faced kangaroos Simosthenurus, and the marsupial tapir Palorchestes. There is potentially ~95,000 years of critical information locked in the Mt Gambier caves, in the form of ancient environmental DNA as well as cave sediments in conditions beneficial for the preservation of ancient DNA, that can shed light on the dramatic biodiversity loss that occurred during the Pleistocene and the factors that drove this change. Success in this role requires collaboration with interdisciplinary experts in archaeology, genetics, and palaeoecology, as well as with Indigenous communities to ensure the ethical and respectful use of cultural heritage materials.

About us

This project will be undertaken through the Australian Research Centre for Human Evolution (ARCHE), with cross supervision from the Griffith Centre for Social and Cultural Research (GCSCR). ARCHE is a world leader in research and education on all aspects of human evolutionary studies. We provide a dynamic and cooperative research environment that seeks to understand how humans and their societies across the globe evolved over time. We emphasise the study of the biological and cultural evolution of humans and our place in the natural world, with a growing focus on Indigenous peoples of Australia, Asia, and the Pacific. Dr Mark de Bruyn and A/Prof Julien Louys are based in ARCHE and together have a wealth of experience in studying past environmental change, human-faunal interactions through time, and the use of DNA to examine biological questions. Dr Yinika Perston is based in GCSCR and is a member of ARCHE with extensive experience on

archaeology and past cultures.

This position will be held at Griffith University Nathan Campus

About you The selection of applicants for the award of higher degree research scholarships at Griffith University involves consideration of your academic merit and research background. To be successful in a research project on sedaDNA and cave palaeontology, you will be able to demonstrate a strong foundation in genetics and molecular biology, as well as familiarity with ecology, archaeology/palaeontology, and biogeography. You will have evidence of a passion for biodiversity conservation and a desire to understand why and how biological communities have changed through time. You will ideally have experience in fieldwork, data collection, and analysis, as well as the ability to work independently and collaboratively with stakeholders from diverse backgrounds. Overall, a successful candidate for this research project will be highly motivated, innovative, and committed to making a positive impact on the environment.

Expressions of interest are welcome from domestic and international applicants.

Applicants must have completed, or expect to complete, a Bachelor's degree with Honours equivalent to first class honours or a Master's degree (AQF Level 9) incorporating a significant research component of a standard comparable to a bachelor honours degree or be regarded by Griffith University as having an equivalent level of attainment in accordance with Schedule One of the HDR Scholarship Policy <https://sharepointpubstor.blob.core.windows.net/-policylibrary-prod/Higher Degree Research Scholarship Policy.pdf>. For further information on the eligibility requirements for the program refer here < https://-www.griffith.edu.au/research-study/degrees >.

About the scholarship The 2023 Griffith University Postgraduate Research Scholarship has an annual stipend of $32,192 (indexed) for a period of up to three years of full-time study. Please see the GUPRS Conditions of Award < https://www.griffith.edu.au/research-study/-scholarships/guprs > for more information.

A successful International applicant will also be awarded a Griffith University International Postgraduate Research Scholarship to cover tuition fees for up to three years. Please see the GUPRS Conditions of

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GriffithU AustralianAncientDNAFeralCats

Scholarship/Project name Feral cats in the Australian Anthropocene

The opportunity We are currently looking for a PhD candidate to join our research team in the examination of feral cat distribution in Australia using ancient DNA (aDNA) techniques. The primary focus of this role is to investigate the impact of feral cats on the Australian ecosystem during the Anthropocene, the current geological age characterised by significant human impact on the planet. This project includes analysing aDNA from cat remains obtained from various archaeological and palaeontological sites across Australia to reconstruct the historical distribution and genetic diversity of feral cats. Success in this role requires collaboration with interdisciplinary experts in archaeology, genetics, and palaeoecology, as well as with Indigenous communities to ensure the ethical and respectful use of cultural heritage materials. About us

- This project will be undertaken through the Australian Research Centre for Human Evolution (ARCHE), with cross supervision from the Griffith Centre for Social and Cultural Research (GCSCR) and the Department of Archaeology, Max Planck Institute of Geoanthropology, Germany. ARCHE is a world leader in research and education on all aspects of human evolutionary studies. We provide a dynamic and cooperative research environment that seeks to understand how humans and their societies across the globe evolved over time. We emphasise the study of the biological and cultural evolution of humans and our place in the natural world, with a growing focus on Indigenous peoples of Australia, Asia, and the Pacific. A/Prof Julien Louys and Dr Mark de Bruyn are based in ARCHE and together have a wealth of experience in studying past environmental change, human-faunal interactions through time, and the use of genetic and phylogenetic data to examine evolutionary questions. Dr Tim Maloney is based in GCSCR and an affiliate member of ARCHE and has been working on the archaeology of Australia for nearly 10 years and has a keen interest in the management of feral cat species. Professor Nicole Boivin's research explores how archaeological data can inform present-day issues ranging from climate change and the Anthropocene to globalization, food security and migration.

- This position will be held at Griffith University Nathan Campus

About you The selection of applicants for the award of higher degree research scholarships at Griffith University involves consideration of your academic merit and research background. To be successful in a research project on aDNA and the impact of feral cats in Australia, you will be able to demonstrate a strong foundation in genetics and molecular biology, as well as familiarity with conservation biology, archaeology/palaeontology, and wildlife management. You will have evidence of a passion for biodiversity conservation and a desire to address the negative impact of feral cats on Australian wildlife. You will ideally have experience in fieldwork, data collection, and analysis, as well as the ability to work independently and collaboratively with stakeholders from diverse backgrounds. Overall, a successful candidate for this research project will be highly motivated, innovative, and committed to making a positive impact on the environment.

- Expressions of interest are welcome from domestic and international applicants.

- Applicants must have completed, or expect to complete, a bachelors degree with honours equivalent to first class honours or a Masters degree (AQF Level 9) incorporating a significant research component of a standard comparable to a bachelor honours degree or be regarded by Griffith University as having an equivalent level of attainment in accordance with Schedule One of the HDR Scholarship Policy <https://sharepointpubstor.blob.core.windows.net/-policylibrary-prod/Higher Degree Research Scholarship Policy.pdf>. For further information on the eligibility requirements for the program refer here < https://-www.griffith.edu.au/research-study/degrees >. Please note:

- If you would prefer candidates with specific backgrounds or experience, you should add these details in this section and list them as desired.

About the scholarship The 2023 Griffith University Postgraduate Research Scholarship has an annual stipend of $32,192 (indexed) for a period of up to three years of full-time study. Please see the GUPRS Conditions of Award < https://www.griffith.edu.au/research-study/-scholarships/guprs > for more information.

A successful International applicant will also be awarded a Griffith University International Postgraduate Research Scholarship to cover

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To read the entire message look it up at http://life.biology.-mcmaster.ca/˜brian/evoldir.html

Hamburg Germany PopulationGenomics

University of Hamburg, Germany: Research Associate (PhD Student) in Population Genomics - Rapid adaptation to environmental change

Become a member of our newly established and dynamic evolutionary biology team! We are interested in the effect of environmental change on populations and ecosystems and study it with the help of the ecological aquatic model organism Daphnia, the water flea. We study adaptation at the genomic as well as phenotypic level and combine population genomics, experimental evolution, molecular tools, high-throughput phenotyping and evolutionary simulations. You can expect a cute model system, big data, the opportunity to steer your PhD project in the direction of your interests, and a supportive working environment.

Find more information and apply under the following link:

https://www.uni-hamburg.de/-stellenangebote/ausschreibung.html?jobID=-e3d624c09669b15f8137020272f6502deba316ff For informal inquiries please contact Kathrin Otte: kathrin.otte@uni-hamburg.de

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Prof. Dr. Kathrin Otte Research Unit of Population Genomics

University of Hamburg Biology Department Institute of Cell and Systems Biology of Animals Martin-Luther-King-Pl. 3 20146 Hamburg Germany

“Otte, Prof. Dr. Kathrin” <kathrin.otte@uni-hamburg.de>

Mainz Germany HumanGenomicDiversity

We have an open position in my group at BioNTech SE. This is a PhD position in a corporate environment but with a strong academic partner (TRON, Mainz, DE) and a population genetics component to it.

Sahin et al (2017, Nature) recently introduced the concept of individualized mutanome vaccines to mobilize immunity against a spectrum of cancer mutations. Our group conducts research at the interface of cancer genomics, bioinformatics, and population genomics, and we are currently searching for a PhD student to conduct bioinformatics and statistical analyses of genomic diversity at the individual and population level to improve our pipeline for developing individualised mutanome vaccines. We are seeking candidates with a background in bioinformatics, computational biology, evolutionary genomics or transcriptomics, population genomics. The candidate should demonstrate skills in programming (Python and/or R) and a strong interest for genomics and statistical genetics. This project is part of the 2024 ATLAS PhD program (project: P07) and application should be made through the ATLAS website: https://-atlas-phdprogram.com/before 31-10-2023.

Stefan Laurent stefan.laurent@biontech.de

Dr. Stefan Laurent Associate Director Tailored Omics Technologies, Bioinformatics R&D

stefan.laurent@biontech.de BioNTech SE An der Goldgrube 12 55131 Mainz Germany www.BioNTech.com Sitz der Gesellschaft: BioNTech SE, An der Goldgrube 12, 55131 Mainz, Germany Amtsgericht Mainz HRB 48720 | USt.-IdNr. DE 263 382 495 | EoriNr: DE 1070347 Vorstand: Prof. Dr. med. Ugur Sahin | Sean Marett | Dr. Sierk Poetting | Ryan Richardson | Prof. Dr. med. Ãzlem Türeci | Jens Holstein | Dr. James Ryan

Stefan Laurent <stefan.laurent@biontech.de>

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MIT EvolutionaryGenetics

The Des Marais Lab at MIT is accepting applications for two PhD students to enroll in the Fall 2024 semester. Located in the Department of Civil and Environmental Engineering, the Des Marais lab uses tools from genomics, physiology, systems biology, and molecular biology to understand the evolution of organism-environment interaction. The funded PhD positions are part of a recently awarded NSF project investigating the cause and consequence of Genotype-by-Environment interactions in plants.

Interested candidates should reach out directly David Des Marais at dldesmar@mit.edu.

desmarais@fas.harvard.edu

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Mondsee Austria GenomeSizeEvolution

PhD student position: “Genome size variation and adaptation in rotifer populations”

The Stelzer Lab (https://www.uibk.ac.at/limno/-personnel/stelzer/forschungsdetails.html and https://-www.uibk.ac.at/limno/personnel/stelzer/) at the Institute for Limnology in Mondsee, Austria, has an opening for a PhD student interested in studying fundamental questions about the role of genome size variation in phenotypic adaptation, funded by the Austrian Science Funds.

Background Eukaryotic genomes are replete with repetitive sequences and copious amounts of non-coding DNA, which are believed to offer little to no informational value. Moreover, eukaryotic genomes exhibit a remarkable range in size, spanning over five orders of magnitude. Over the past two decades, genome sequencing projects have unveiled the presence of extensive repetitive DNA elements, including transposable elements, satellite DNA, and pseudogenes. Despite ongoing efforts to sequence more genomes, crucial questions about the

evolutionary mechanisms governing the abundance of repetitive DNA remain unanswered. We aim to understand why this repetitive proportion is so substantial, how it influences other genomic regions, and ultimately, how it impacts the phenotype of individuals bearing these genomes. Our research is driven by a deep fascination with these questions and focuses on exploring them from the angle of intraspecific genome size variation. Our main model organism is the rotifer Brachionus asplanchnoidis, known for its within-population GS variation that is mediated by satellite-DNA rich genomic elements.

The project Our overarching goal is to unravel the intricate relationship between genetic and structural elements within the genome of B. asplanchnoidis and their impact on the organism's phenotype. By employing techniques like flow cytometry, whole-genome sequencing, and automated phenotyping, we aim to dissect the causes and consequences of genomic variation in this population. Through rigorous laboratory experiments, including long-term experimental evolution studies, we investigate how these genomic variations affect critical aspects such as body size, development, growth, and metabolic efficiency at both individual and population levels. Leveraging automated image analysis, we track phenotypic changes, particularly body size, throughout the evolution of these populations. Our research addresses key hypotheses concerning genome size changes, encompassing selection-based, mutational, and drift-based perspectives.

The PhD position This PhD position is funded within an Austrian Science Funds (FWF) research project (P35916) titled "Genome Size Variation and Adaptation in Rotifers." The salary for this position will be in accordance with the FWF's guidelines, as outlined here: https://www.fwf.ac.at/en/research-funding/personnel-costs/. The selected candidate will be required to enroll at the University of Innsbruck. The funding for this position is secured for a minimum duration of three years. There will be no teaching responsibilities expected from the PhD candidate.

The Work Environment The main work will be conducted at the Research Institute for Limnology in Mondsee (https://www.uibk.ac.at/limno/), which is a part of the University of Innsbruck, Austria. Courses of the PhD curriculum are either in Innsbruck or in Mondsee. Our lab and the institute provide a friendly and stimulating work environment with state-of-the-art infrastructure, expertise, and opportunities for collaboration. The Institute is situated in the charming town of Mondsee, nestled in the Salzkammergut lake district. It is located approximately 30 km east of the historic city of Salzburg and 200 km east of Innsbruck. The Salzkammergut area is renowned for its natural beauty and offers a high quality of life with exceptional opportunities for various outdoor activities. The institute boasts a dedicated team of approximately 30 staff members, including 8 research scientists, who are actively engaged in diverse research areas, particularly focusing on the evolutionary ecology of aquatic organisms.

Your Profile We are seeking a highly motivated candidate with a strong background in evolutionary biology. An interest in combining experimental and computational work is essential. Prior experience in programming (any language), bioinformatics, and/or experimental work is a plus. We value candidates who are driven by scientific curiosity, possess a strong work ethic, can work independently, and have excellent communication and interpersonal skills. The ability to integrate and work effectively within a team is highly desirable.

Application

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NHM London MeiofaunalMolecularSystematics

Transforming meiofaunal molecular systematics and community ecology through nanopore-based transcriptome skimming

https://www.nhm.ac.uk/our-science/courses-and-students/phd-projects/meiofaunal-molecular-systematics.html Dr Christopher Laumer (cel -at- nhm.ac.uk) - Research Fellow, Natural History Museum Professor Yannick Wurm (y.wurm -at- qmul.ac.uk) - Professor, Queen Mary University of London

Project description Aquatic microinvertebrates living in sediments and soils, sometimes known as meiofauna, represent one of Earth???s largest and least-known reservoirs of animal biodiversity, with over two-thirds of all animal phyla and on the order of 105-106 species represented, most still undescribed.

With such high diversity and dwindling taxonomic expertise, technological innovations will be required to unlock the large potential insights these communities can yield in evolutionary and ecological research.

Low-depth long-read transcriptome sequencing, with only 10,000s of reads per sample, is sufficient to assemble hundreds of highly expressed genes, including all or nearly all mitochondrial protein-coding genes, nuclear rRNAs, and many other phylogenetically useful housekeeping genes, without any targeted PCR. This allows any specimen to be phylogenetically placed with high confidence, even in taxa where 'universal' primers fail and can recover sequences of symbionts and gut contents simultaneously.

Combined with the high accuracy, throughput, and accessibility of nanopore sequencing, protocols that enable large numbers of specimens to be transcriptome-skimmed, exploiting liquid handling robots, and combinatorial barcoding approaches borrowed from single-cell RNA-seq, may be transformative for the study of meiofaunal biodiversity.

The successful candidate will participate in developing this technique, already validated with pilot data, designing, overseeing and implementing transcriptome skimming experiments at the Museum???s molecular laboratories. At Queen Mary University of London (QMUL), you will develop bespoke bioinformatics tools to quality-control, assemble, and mine these data for phylogenetic markers and to iteratively build very large (100,000+ specimen) phylogenies. There is considerable potential for students to develop taxonomic expertise in parallel and to participate in leading domestic and international fieldwork, focusing on temperate rainforests and marine seagrass meadows, two globally threatened habitats of outsized ecological importance.

Research environment Over 150 PhD students are linked with the Museum for their doctoral research, including students from eight Doctoral Training Programmes. We have a welcoming and active student community, a dedicated Graduate Centre for working and socialising and an annual calendar of student activities and workshops. Students are also encouraged to participate in wider Museum activities, including Museum Lates, Dinosnores and the Graduate Centre Explorers pilot programme.

The School of Biological and Behavioural Sciences at Queen Mary is one of the UK???s elite research centres, according to the 2021 Research Excellence Framework (REF). They offer a multi-disciplinary research environment and have approximately 150 PhD students working on projects in the biological and psychological sciences. Students have access to a variety of research facilities supported by experienced staff, as well as a range of student support services. Your work will benefit from access to modern genomics labs and the 13,000-core Apocrita HPC cluster.

You will join a dynamic and supportive team of collaborative researchers who enjoy life and doing impactful, innovative science. You will be co-supervised in the research groups of Dr Christopher Laumer, a new research fellow at the Museum, leading research in meiofaunal biodiversity, systematics, and comparative genomics, with strong side interests in molecular wet-lab method development and Dr Yannick Wurm, who leads a research group at QMUL in evolutionary genomics, bioinformatics, and social insect biology

Training and development PhD students will become part of Queen Mary???s Doctoral College, which provides training and development opportunities, advice on funding, and financial support for research. Students also have access to a Researcher Development Programme designed to help recognise and develop key skills and attributes needed to effectively manage research and plan for the next stages of their careers.

You will obtain a broad range of interdisciplinary and transferable training. You will develop and implement new approaches, receive training in molecular biology, genomics, bioinformatics, data science, software development, scientific communication and related disciplines. You will collaborate for some aspects of the project, and develop the critical

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Norwich UK EvolutionSplicingNoise

Graduate Position: The message in the noise: characterisation and quantification of noise in alternative splicing in the brain.

Nearly all of human genes undergo alternative splicing (AS) the process by which different transcripts are generated from a single gene, can generate transcripts with strikingly different functions - either due to truncation of the protein coding sequence, or alteration of functional domains. AS is highly regulated during development and across tissues being involved in processes such as cell differentiation, migration and cancer.

We have applied long-read sequencing to the study of AS across scales - from single cells to tissues - to reveal unexpected transcript diversity and identifying thousands of novel transcripts. In most cases only one or two

dominant transcripts represent the bulk of the expression arising from a gene with the remaining transcripts lowly expressed and considered to be noise.

The characterisation of AS diversity across cells in steady state and during differentiation can provide novel insights on the regulation of this fundamental process. More specifically we aim to answer if individual cells exhibit the same distribution of transcript expression as seen in bulk and how often does functional switching - from dominant to "noisy" transcript - occur in cell differentiation?

We offer a highly collaborative PhD project between the Haerty (bioinformatics) Macaulay (molecular biology, technology development). The student will work in a rapidly developing field and gain unique expertise in experimental (cell culture, single cell biology) and computational (bioinformatics, transcriptomics, proteomic) biology.

The project will be conducted at the Earlham Institute, a UKRI-BBSRC research centre of excellence for bioinformatics and sequencing technology development, in close collaboration with scientists at the University of Oxford, and Wellcome Trust Sanger Genome Campus. The student will have access to training and career development opportunities at EI and on the Norwich Research Park as part of the Norwich Biosciences Doctoral Training Partnership.

Closing date November 20th 2023

https://www.earlham.ac.uk/studentship/message-noise-characterisation-and-quantification-noise-alternative-splicing-brain Wilfried Haerty Group Leader [signature_2840145872] Norwich Research Park Norwich Norfolk NR4 7UZ +44 (0) 1603 450 974 wilfried.haerty@earlham.ac.uk www.earlham.ac.uk "Wilfried Haerty (EI)" <Wilfried.Haerty@earlham.ac.uk>

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Norwich UK SplicingNetworks

Graduate Position: There is more than meets the eye: reconstruction of isoform level regulatory networks in the human brain.

Therapies for many potentially treatable genetic diseases remain out of touch because we still don't have a full picture of how genes are regulated differently between cells and tissues. Many genes, including some directly associated with traits and disorders, are widely expressed across cells and tissues, leading to potential unwanted secondary effects if blindly targeted with medications.

However, nearly all genes in humans undergo alternative splicing, the process through which different transcripts are generated from a single gene.

Recent work by us and others demonstrated that alternatively spliced transcripts arising from many of these genes tend to have a much more specific expression, opening the opportunity to identify specific isoforms as potential targets for drug development. To further the identification of isoforms of interest it is becoming increasingly important to fully characterise their regulation through the reconstruction of regulatory networks integrating splicing information in relevant tissues.

We offer a highly collaborative PhD project between the Haerty < https://www.earlham.ac.uk/research-group/-haerty-group > (bioinformatics) Macaulay < https://-www.earlham.ac.uk/research-group/macaulay-group > (molecular biology, technology development) groups. The main aim of the project is to develop approaches to reconstruct regulatory networks at the transcript level in the human brain, assess the transcript regulation for candidate genes, and assess the impact of genetic variation on transcript regulation.

The student will work in a rapidly developing field and gain unique expertise in computational biology, large dataset analysis, genomics, transcriptomics, sequencing technologies, molecular biology, technology development, and therapeutic target identification.

The project will be conducted at the Earlham Institute, a UKRI-BBSRC research centre of excellence for bioinformatics and sequencing technology development, in close collaboration with scientists at the University of Oxford.

The student will have access to training and career development opportunities at EI and on the Norwich Research Park as part of the Norwich Biosciences Doctoral Training Partnership.

Closing date November 20th 2023

https://www.earlham.ac.uk/studentship/there-more-meets-eye-reconstruction-isoform-level-regulatory-networks-human-brain-0 Wilfried Haerty Group Leader [signature_2439344200] Norwich Research Park Norwich Norfolk NR4 7UZ +44 (0) 1603 450 974 wilfried.haerty@earlham.ac.uk www.earlham.ac.uk "Wilfried Haerty (EI)" <Wilfried.Haerty@earlham.ac.uk>

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OklahomaStateU TreeGenomics

The Castilla Lab (https://www.arcastilla.com) at the Department of Plant Biology, Ecology, and Evolution (PBEE) at Oklahoma State University is looking for enthusiastic, team-oriented graduate students (MS and PhD) to begin Fall 2024. Research areas in our lab intersect plant ecology, population genomics, and evolutionary biology. Students are welcome to bring/discuss their original ideas or to work within the scope of the current projects in the lab, which include the use of data integration in historical biogeography, landscape genomics of oaks, and the role of adaptive introgression as a driver of rapid evolutionary change.

Here's why you should consider us:

1. Diverse Research Opportunities: You have the freedom to explore your own ideas within the scope of the current projects in the lab while getting regular support from me and other lab members.

2. A broad network of collaborators: There will be opportunities to collaborate with other labs within the US and in Spain.

3. Interdisciplinary Learning: Our lab offers a rich multidisciplinary environment, allowing you to acquire a wide range of skills, from genomics and fieldwork to high-performance computing and integrative modeling.

4. Financial Support: Students will be funded via Teaching Assistantships and PI funds. Moreover, we actively encourage you and will help you to seek additional funding through graduate research fellowships and grants

If you are interested in joining our lab, please get in touch with Dr. Antonio R. Castilla (arcastilla@okstate.edu) and attach the following documents as a single PDF:

1. A one-page letter of interest describing your scientific interests and career objectives. 2. Your CV/resume (including GPA; unofficial transcripts are acceptable). 3. Contact information for two references.

Please take a moment to review our admission requirements (https://plantbio.okstate.edu/graduate-programs) and ensure that you are a good fit.

Oklahoma State University is your platform for success, offering a Carnegie Tier 1 research university experience. We boast cutting-edge facilities for research, from state-of-the-art greenhouses and growth chambers to core genomics and proteomics resources, along with a high-performance computing center and numerous field stations.

The Department of Plant Biology, Ecology, and Evolution at Oklahoma State University excels in graduate student training. Our small, close-knit community offers a conducive, professional atmosphere for personalized mentorship from renowned faculty. With a singular focus on plant studies, it provides abundant opportunities for collaborative research and mentorship. We are dedicated to cultivating the next generation of leaders in plant biology, ecology, and evolution.

Stillwater is well regarded as one of the friendliest college towns in America. It offers an exceptionally high quality of life, a thriving college community with a low cost of living. Tulsa and Oklahoma City, two major metropolitan areas, provide numerous shopping, dining, and cultural activities approximately 60 miles from Stillwater.

Antonio R. Castilla (Pronouns: he/him/el)

Assistant Professor Oklahoma State University College of Arts and Sciences Department of Plant Biology, Ecology, and Evolution

Website: www.arcastilla.com Twitter: https://-twitter.com/AR_Castilla Antonio Castilla Alvarez <acastillaalva@gmail.com>

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RutgersU QuantEvolutionaryMicrobiology

Ph.D. student in ecology, evolution, and systems biology of microbial communities

Application review begins November 1, 2023

WHO ARE WE? We are the Quantitative Evolutionary Microbiology Lab (https://qevomicrolab.org), led by Dr. Michael Manhart. Our lab wants to understand how evolutionary processes shape the ecology and cellular physiology of microbial communities. We are an interdisciplinary group of 7 people with backgrounds including microbiology, physics, evolutionary biology, bioengineering, and applied math and we use a wide range of methods, including computational, theoretical, and experimental approaches.

We are based at Rutgers University in the Center for Advanced Biotechnology and Medicine, which hosts 23 labs from across the life sciences. We are also active members of the Rutgers University Microbiome Program, which links microbiome scientists across the university through regular seminars, retreats, and collaborations.

WHAT DO WE OFFER? As a Ph.D. student in our lab, you will develop and conduct research projects, present at local and international meetings, write papers, and apply for funding. Current major research directions in the lab include the evolution of microbial population dynamics and the effect of ecological interactions on adaptation in microbial communities, but the position will allow for significant flexibility in developing new directions in accordance with your interests and the broad goals of the lab. Your research may involve any combination of computational, theoretical, and experimental components.

We offer competitive stipends and outstanding benefits, including comprehensive health insurance. Ph.D. students in good standing can expect to receive full financial support for the duration of their Ph.D. (5-6 years).

WHO ARE WE LOOKING FOR? You should have a strong interest in studying the fundamental biology of microbes using computational, theoretical, or experimental approaches. By fall of 2024, you must have a bachelor's degree in a biological or quantitative discipline, including (but not limited to) biology, physics, chemistry, computer science, applied math, or engineering. We strongly encourage applications from a diverse range of candidates, even if you don't think you're a perfect fit.

WHERE? Rutgers University is the eighth-oldest institution of higher education in the US and now one of the largest, with approximately 20,000 graduate students and over 8,000 faculty. Our center is based on the Piscataway/New Brunswick campus in New Jersey, within the New York metro area and one of the most culturally and naturally rich parts of the country. We have convenient connections to the NJ Transit and Amtrak rail networks as well as to Newark Liberty International Airport.

HOW? Send an e-mail to Dr. Michael Manhart (mmanhart@rutgers.edu) containing the following documents as a single PDF:

1. A cover letter containing: - A narrative summary of your education, research, and other work history, especially experiences you feel specifically prepared or motivated you for this position - An explanation of why you are specifically interested in this position and what you hope to gain from it - Any other details that you consider important for evaluating your application - Where you learned about the position (e.g., e-mail from colleague, Twitter/Mastodon/Bluesky, job website, etc.) 2. Your CV, including all education and previous research experience 3. Names and e-mail address for three references that know your previous educational and research experiences

If our lab agrees to sponsor your application, you must also apply to an affiliated Rutgers graduate programs (https://gradstudy.rutgers.edu/) by the following due dates:

- Molecular Biosciences (December 1, 2023) - Ecology and Evolution (December 1, 2023) - Microbial Biology (December 15, 2023) - Physics and Astronomy (January 1, 2024) - Quantitative Biomedicine (January 15, 2024)

Be sure to check any program-specific requirements (e.g., GRE exams) before applying.

WHEN? Please contact Dr. Michael Manhart by November 1, 2023 and apply by the above program due dates!

Michael Manhart <mmanhart@rutgers.edu>

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Taipei Taiwan EvolEcolGenomics

*Two-year funded master's study in evolution, ecology and genomics of microbial eukaryotes or viruses *Application open until Jan. 25, 2024 or until positions are filled

Master's positions with stipends (starting in fall 2024) are available in the lab of Dr. Chuan Ku at the Institute of Plant and Microbial Biology, Taipei, Taiwan. Successful applicants will be enrolled in graduate programs of National Taiwan University and complete the required courses taught in English.

Our lab focuses on microalgae (which account for half of carbon fixation worldwide) and other eukaryotic microbes that play important ecological roles. Current research topics in the lab include: 1. evolutionary history and genomic regulation of algae and other eukaryotes 2. genome evolution of giant viruses infecting diverse eukaryotes 3. ecology and regulation of microalga-microbe interactions

Our institute is part of Academia Sinica, the Taiwanese

academy of sciences. The working language in our lab and institute is English. Knowledge of Mandarin and other Taiwanese languages is not required, but students are encouraged to take free Mandarin classes on campus. A monthly stipend of ~650 USD will be provided for each master's student, which can cover dormitory rent and living expenses in Taipei.

Application requirements: 1. a bachelor's degree (received by 2024 or earlier) in biology, natural sciences, informatics or related fields 2. English proficiency for reading, writing, and oral communication 3. strong motivation to work in a research environment 4. ability to work both independently and as part of a team 5. any of these would be a plus: *programming skills *knowledge in evolutionary biology, genomics, ecology, microbiology, molecular biology or cell biology *research experience in related fields

To apply, please send an email with the subject IPMB_application_Master_YourName directly to Chuan Ku, briefly describing your research interests, experience, skills, future plan, and contact details of referees (at least two). A single PDF should be attached that includes your CV, transcripts, and, if available, degree certificate, and proofs of relevant skills and experience. Shortlisted candidates will be invited to an interview.

Dr. Chuan Ku (associate professor) Email: chuanku@gate.sinica.edu.tw Lab website: https://chuanku-lab.github.io/kulab/ Institute website: https://ipmb.sinica.edu.tw/en Chuan Ku <chuanku@gate.sinica.edu.tw>

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TexasAMU BirdMigrationGenomicsConservation

PhD Position Available Bird migration - Genomics - Conservation

Position: We are seeking a PhD student to help lead an NSF-funded project aimed at understanding how migratory organisms will respond to climate change.

Project goals: The timing of migration is tightly linked to resource availability. Warmer springs have caused resources on the breeding grounds to peak earlier, and it is unclear if migrants can modify their timing to match these advances. We have designed a set of projects to fill these knowledge gaps using the Purple Martin. These projects will include field work (e.g., large scale tracking of wild birds), molecular work (e.g., generation of genomic data) and data analysis (e.g., bioinformatics, predictive modelling). The results we generate will be used to assess existing protection policies for migrants and test new management plans. The successful applicant can assist in any or all of these aspects.

Start Date: Earliest Jan 2024. The student could enroll as a PhD student immediately or start as a research assistant anywhere between Jan and May 2024, enrolling as a PhD student in Sept 2024.

Funding: This position is funded by a recent NSF grant. All research and travel will be covered, and student stipend/salary will be covered by a combination of the grant (2 semesters/year) and teaching assistantships (1 semester/year).

Supervision and Collaboration: The successful applicant will be based at Texas A&M but co-advised by Dr. Kira Delmore (Texas A&M University, delmorelab.com) and Dr. Kevin Fraser (University of Manitoba). This project is highly collaborative, including not only Dr. Delmore and Dr. Fraser but also partnerships with several conservation (e.g., the Purple Martin Conservation Association) and government agencies (e.g., the US Fish and Wildlife Service and Committee on the Status of Endangered Wildlife in Canada). The latter connections derive from the fact that northern populations of Purple Martins are in decline and these agencies have a vested interest in understanding why. The varied collaborations associated with this project will ensure the successful applicant obtains broad training for their future.

Skills and Experience: Ideally previous research experience with songbird field systems and/or genetic data. Experience with data analysis and scientific writing is also an asset.

Approach and Environment: Both advisors have a supportive and positive approach to student mentorship and training. We strive to maintain an equitable, diverse, and inclusive training environment and emphasize the importance of collaboration and teamwork. The student will enroll in either the Biology (https://bio.tamu.edu) or Ecology and Evolutionary Biology (https://eeb.tamu.edu) departments at Texas A&M. These programs bring together members of many departments from a variety of scientific and international backgrounds. Texas A&M is a Tier 1 institution with a number of research facilities. College Station is a small, friendly university town located between Austin and Houston.

Application: Please send CV and a statement of interest

to Dr. Kira Delmore (kdelmore@bio.tamu.edu).

Kira Delmore | Assistant Professor Biology, College of Science | Texas A&M University 3528 TAMU | College Station, TX 77843 1 (979) 900-2129 | kdelmore@bio.tamu.edu delmorelab.com

* My working hours may not be your working hours. Please do not feel obligated to reply outside of your normal work schedule. *

kdelmore@bio.tamu.edu

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Toulouse France ModellingGenomeEvolution

Position: Internship position for a graduate student

Duration: 5-6 months.

Time period: Flexible. January - September 2023 preferred.

Description: Local adaptation of populations to environmental conditions plays a central role in generating genetic and phenotypic diversity. In recent decades, the rapid development of sequencing technologies has paved the way for the extension of genetic research on local adaptation to wild populations for virtually any organism of choice, promising to provide essential information on the evolutionary history of species. In this context of accumulating genomic data, mathematical models can help us better understand how genome evolution contributes to local adaptation, and provide predictions that can be empirically evaluated.

Transposable elements (TEs) are autonomously replicating DNA sequences (earning them the qualification of "selfish DNA") that may insert within or near genes. The insertions caused by TEs are often deleterious. In particular, TE insertions can be deleterious when they are located within coding or regulatory sequences (gene disruption). They may also cause deleterious chromosomal rearrangements by inducing crossovers between homologous DNA sequences located at different locations (ectopic recombination). Molecular countermeasures reducing TE activity have therefore evolved in the host, thereby limiting the disruptive potential of TE insertions. Nevertheless, it has been shown that certain TE insertions are adaptive, notably during environmental adaptation. Given that TE activity appears to peak during periods of stress, it has often been argued that TE activation in response to stress could enable environmental adaptation. Although the control of TE activation in response to stress sounds like an appealing example of an adaptive trait, it may in fact be beneficial in very restricted conditions. This calls for a more in-depth theoretical investigation.

The objective of the internship is to begin to fill this knowledge gap by studying, using either a population genetics model or an individual-based model, how TE activity may contribute to environmental adaptation. In particular, it will involve building the model and analyzing it using numerical simulations or analytical derivations.

Work and responsibilities: Develop a population genetics model or an individual-based model to answer the question posed: to what extent can TE activation promote environmental adaptation?

Implement the model in Mathematica (for a population genetics model) or C++ (for an individual-based model), or any other computer language adapted to the study of this types of model.

Analyze the model: sensitivity analysis from simulations, or mathematical derivations for the population genetics model (analysis based on the interpretation of Barton-Turelli selection coefficients). Write a scientific report on the results obtained.

Participate in internal seminars of the UMR EDB and the host team, and present the key results obtained during the internship.

Expected skills: Basic knowledge of population genetics and evolutionary biology Experience in developing computer scripts, and analyzing models.

Oral and written communication

Stipend: 623 euros per month

Host team: Laboratoire Ãvolution & Diversité Biologique (EDB), UMR 5174 Université Toulouse III Paul Sabatier Adresse : Bâtiment 4R1, 31062 cedex 9, 118 Rte de Narbonne, 31077 Toulouse Website : https://edb.cnrs.fr/ Supervision: Dr. Thomas AUBIER, Chargé de Recherche CNRS, Université Toulouse III Paul Sabatier Website : http://www.normalesup.org/~taubier/ Email : thomas.aubier@univ-tlse3.fr

Application: A CV and a short cover letter to be sent by email to Thomas AUBIER (thomas.aubier@univ-tlse3.fr) Applications will be considered until the internship is filled.

Thomas Aubier <thomas.aubier@yahoo.fr>

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UAlabama Huntsville FishEcolEvolution

The Culumber Lab at the University of Alabama in Huntsville is recruiting either an MSc or PhD student for Fall 2024. The lab's general focus is using freshwater fishes to understand patterns of phenotypic and species diversification. Recent work in the lab has focused on behavioral, ecological, and genomic questions related to patterns of dispersal and diversification, as well as mechanisms maintaining genetic polymorphisms within natural populations. A successful applicant will have the option to work on ongoing projects or develop a new project related to fish evolutionary ecology with preference towards questions related to thermal adaptation, the role of behavior in patterns of dispersal, or mechanisms maintaining adaptive genetic polymorphism. The lab is equipped to - and has a history of - incorporating diverse approaches including genetics, ecology, behavior, and physiology to understand evolutionary patterns.

Our lab and our University are devoted to promoting diversity and supporting professional development of our students. Prior experience with genetic techniques, animal behavior, or animal physiology is expected. Prior experience with fish is beneficial but not required. The position will at least initially be supported by a graduate teaching assistantship.

Huntsville is a vibrant and growing community. Now the largest city in Alabama, there are many activities available including a variety of outdoor recreation opportunities, a great food scene, a variety of other things to do around town from comedy to live music venues, and also a short distance to other regional cities of interest in both Alabama and Tennessee.

Interested applicants should contact the PI before applying. The email should briefly outline research interests, past research experience/skills, include a CV, and provide at least 2 references. Applicants will be expected to interview with the PI via Zoom prior to applying to the graduate program.

Priority will be given to applications received by Nov 15th with a final deadline of Dec 1st.

Any questions about the position or application process can be sent to the PI.

PI email: zwc0001 [at] uah . edu

Dr. Zachary Culumber

Assistant Professor

University of Alabama in Huntsville

Zachary Culumber <zwc0001@uah.edu>

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UBath MolecularMicrobiology

Evolutionary innovation through transcription factor promiscuity

The Taylor lab (https://tiffanybtaylor.wordpress.com/; @TaylorLabGroup (X and Bluesky)) at the Department of Life Sciences and Milner Centre for Evolution, University of Bath has an opening for a PhD student interested in evolution and molecular microbiology, funded by the Royal Society. This project will be co-supervised by Prof Laurence Hurst.

*Applications must be submitted via https://-www.findaphd.com/phds/project/evolutionary-innovation-through-transcription-factor-promiscuity/-?p161079 *

Deadline: 6th November 2024

Project: When we remove a key gene from a gene regulatory network (GRN) we find, experimentally, that the organism evolves new network wiring to compensate. In our model system, we have revealed a hierarchy among transcription factors (TFs) that are rewired to rescue lost function, with alternative rewiring pathways only revealed after the preferred pathway is eliminated. In the wild, evolutionary change to GRNs frequently underscores adaptation to novel environments, as it generates new expression patterns and allows regulation of novel gene functions. Our work suggests that we can better predict rewiring routes with improved mechanistic knowledge of the properties that define the evolutionary potential of TFs for GRN rewiring. To achieve this goal, we must fill knowledge gaps. What factors are important for defining TF hierarchy? Is rewiring mode dependent on the environment or on mutational supply? Our work tackles these issues with a view to both understanding the success of rapidly adapting organisms and, potentially, with a view to whether certain GRN patterns are better 'primed' for evolutionary rescue of a broken network compared to others which could be applied to improve synthetic circuit design. Our research

takes an interdisciplinary approach, combining experimental evolution with molecular genetic manipulations, bioinformatics and protein modelling to address central evolutionary questions within the context of GRN evolution.

Location: The University of Bath provides an exceptional intellectual environment - with strong integration between microbiology and evolutionary biology research staff - as well as an outstanding infrastructure to conduct the microbiological, molecular and genomic research. The Milner Centre for Evolution is unique in the UK, providing a research environment focused on doing ground-breaking research that addresses major questions in evolutionary biology (https://www.bath.ac.uk/-research-centres/milner-centre-for-evolution/).

Requirements: We are looking for a biology graduate (with a First Class or good Upper Second Class Honours degree or the equivalent) who has a strong interest in microbiology, molecular biology and evolution. Some practical experience in microbial molecular techniques is highly desired, but additional training will be provided. The successful candidate will be enthusiastic, highly motivated, independent, have experience in microbiology, molecular biology or evolutionary biology (or a combination), and have a relevant degree. Non-UK applicants must meet our English language entry requirement.

Funding Eligibility: To be eligible for funding, you must qualify as a Home student. The eligibility criteria for Home fee status are detailed and too complex to be summarised here in full; however, as a general guide, the following applicants will normally qualify subject to meeting residency requirements: UK and Irish nationals (living in the UK or EEA/Switzerland), those with Indefinite Leave to Remain and EU nationals with pre-settled or settled status in the UK under the EU Settlement Scheme. This is not intended to be an exhaustive list. Additional information may be found on our fee status guidance webpage, on the GOV.UK website and on the UKCISA website.

Planned start date: 15 January 2024 (4-years funding)

Contact: Informal enquiries encouraged. Please contact Tiffany Taylor T.B.Taylor@bath.ac.uk. More information can be found at https://www.findaphd.com/phds/-project/evolutionary-innovation-through-transcription-factor-promiscuity/?p161079 References: Shepherd, M. J., Pierce, A. P., & Taylor, T. B. (2022) Evolutionary innovation through transcription factor promiscuity in microbes is constrained by pre-existing gene regulatory network architecture. bioRxiv. [in press]

Shepherd, M. J., Reynolds, M., Pierce, A. P., Rice, A. M., & Taylor, T. B. (2023). Transcription factor expression levels and environmental

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UBristol WaspSocialEvolution

PhD projects: Social evolution in wasps across Africa

We are looking to recruit two excellent and initiative-taking students to conduct PhDs in animal behavior and evolution, based in the friendly and dynamic School of Biological Sciences at the University of Bristol in the UK. You will conduct field experiments with social wasps across Africa to tackle open questions in the evolution of conflict and cooperation.

PhD opportunity 1: “Social wasps across Africa: exploring how societies evolve at a continental scale”

A major goal amongst evolutionary biologists is to uncover the links between climate and cooperation. In this PhD, you will use the extraordinarily wide distribution of Africa’s Belonogaster wasps - which span the continent south of the Sahara - to investigate key links between climate and sociality.

To find out more about this project, see the project description at www.tinyurl.com/AfricanWasps and contact the lead supervisor (Dr Patrick Kennedy) at patrick.kennedy@bristol.ac.uk. This project is advertised as part of a competition-funded ’Doctoral Training Partnership’ (DTP) in the UK < https://-/www.bristol.ac.uk/study/postgraduate/research/-great-western-four-doctoral-training-partnership-nerc/ >.

Deadline for DTP application: 9th January 2024 (contact the lead supervisor well before this deadline to discuss the project and your suitability)

PhD opportunity 2 (Bristol Scholarship for UK students of Black or mixed Black heritage): “Power games in the wild: the social evolution of dominance” Animal social groups are often profoundly unequal. In this PhD, you will explore how social power evolves and is maintained, and develop evolutionary theory to explain why different species and populations evolve to have radically different types of power structure. You will have a rare opportunity to combine evolutionary theory

and fieldwork: you will develop theoretical models using both evolutionary game theory and computational simulations, and test predictions by devising creative behavioural experiments with social wasps at our field sites in Africa.

To find out more about this project, see the project description at www.tinyurl.com/WaspPower and contact the lead supervisor (Dr Patrick Kennedy) at patrick.kennedy@bristol.ac.uk. This project is advertised as part of the new competition-funded Bristol Scholarship for UK home-fee students of Black or mixed Black heritage.

Deadline for full application: 8th January 2024 (contact the lead supervisor well before this deadline to discuss the project and your suitability)

Entry requirements

The successful applicants will have a demonstrable passion for evolution and ecology. You must have a first or upper second-class degree (or international equivalent) in a discipline related to the PhD project. Applicants with additional relevant experience and/or a master's degree are strongly encouraged to apply.

Patrick Kennedy, School of Biological Sciences, University of Bristol patrick.kennedy@bristol.ac.uk

Patrick Kennedy <patrick.kennedy@bristol.ac.uk>

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UCalifornia Riverside Macroevolution

*** Ph.D. positions in the Moen lab at the University of California, Riverside ***

I am recruiting 1-2 students to pursue a Ph.D. in my lab (https://moenlab.ucr.edu) at the University of California, Riverside, starting Fall 2023. These positions will be funded by first-year fellowships and teaching assistantships, with support guaranteed for 5 years. They may also be partly supported as a graduate research assistantship (GSR), for which the students would study the evolution of morphology and functional performance in frogs and toads. The GSR involves both laboratory experiments and fieldwork, which will be mostly local but may involve international trips.

Research in the lab addresses macroevolution and evolutionary biomechanics. Most projects involve fieldwork, laboratory experiments, work with museum specimens, and phylogenetic comparative analyses.

Students in the lab have the opportunity to work on ongoing projects, develop their own project, or a combination of the two. Some (broad) potential dissertation research topics include: - The mechanics of movement in frogs and the consequences for macroevolutionary patterns of morphological diversity - The mechanisms and ecology underlying diversity in locomotor performance capacity, including studies of biomechanics and muscle physiology - Large-scale analyses of phenotypic and ecological evolution

If interested, please send me an introductory email that includes your research interests (including why you are specifically interested in working on the above topics), research experience, CV, GPA, and GRE scores (if you've taken them). Strong candidates will have had at least one substantial independent research experience, such as a summer REU, undergraduate research thesis, or a Master's degree. Ideal candidates will have experience in typical lab projects and methods, including studies of performance and morphology, herpetology, phylogenetic comparative biology, and statistical analyses in R. However, more than specific experience and skills, I am seeking highly motivated applicants with a desire to work both independently and as part of a team. In the Moen lab we strongly value a diverse and inclusive environment, so we encourage applicants that share those values.

Completed applications need to be submitted to the EEOB graduate program by 1 December 2023 to receive priority consideration. However, if you are interested I strongly encourage you to begin discussing an application with me well before this deadline.

DANIEL S. MOEN Assistant Professor Dept. Evolution, Ecology, and Organismal Biology University of California, Riverside Email: dmoen@ucr.edu Office: 1354 Spieth Hall Phone: 951-827-6458 Postal: 3401 Watkins Drive, 1229 Spieth Hall, Riverside, CA 92521

Daniel Moen <dmoen@ucr.edu>

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UCentralFlorida ComparativeGenomics

The Sharanowski lab at the University of Central Florida is seeking a Ph.D. student to work on comparative genomics and evolutionary genomics projects, focusing on parasitic wasps in the superfamily Ichneumonoidea. This research will be largely computational and thus a strong background in programming would be ideal, as well as course work in genomics, genetics, and several courses that would provide a strong quantitative background. Students with a biology, math, or a computer science degree are highly encouraged. Students with Masters degrees are preferred but not required.

PhD students are supported via graduate teaching assistantship from the Biology Department and are supplemented with summer salary from the Sharanowski Lab for full support including health insurance benefits. Interested applicants are encouraged to email Dr. Sharanowski by November 15th with a

a CV outlining research experience with 3 names of references includeda copy of current transcripts (covering at least the past 2 years)and a short description of research interests including why you want to join the Sharanowski Lab.

Dr. Sharanowski will contact suitable applicants for a zoom interview to assess fit. Applications to UCF are due Dec 1st, 2023. International applicants are welcome. The University of Central Florida is a large university and a designated Hispanic serving institution. Students from all backgrounds are encouraged to apply. Orlando is a diverse and beautiful city and the department, campus and city have supportive communities.

Dr. Barb Sharanowski

Associate Professor, Department of Biology

University of Central Florida

barb.sharanowski [at] ucf.edu

Barbara Sharanowski <Barb.Sharanowski@ucf.edu>

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UEastAnglia Two DogAndRedFoxPopGenomics

A PhD position is available on evolutionary genomics and adaptation in the domestic dog. The position will be based at the School of Biological Sciences at the University of East Anglia (UEA) in Norwich, UK, as part of the 4-year Norwich Research Park doctoral training program, and supervised by Dr. Anders Bergstrom.

The dog was the first species to be domesticated by humans, and is the only animal that evolved alongside us through the major lifestyle changes of the last ~10,000 years, including the rise of agriculture. This project will use whole-genome sequencing technologies to ask: how have humans changed the genomes of dogs?

1. What makes a dog a dog? We still don't understand what the fundamental genetic changes that make dogs different from wolves are. The project will develop new approaches to tackle this question using the many whole genomes, including ancient ones, from dogs and wolves that are now available.

2. What is the structure and evolution of the dog amylase locus? Copy number expansions of amylase genes, involved in starch digestion, represent a remarkable example of convergent evolution between humans and dogs. The project will use recently published, high-quality long-read assemblies to dissect the structure and evolutionary history of this locus.

3. Does the genomic history of dogs on Madagascar mirror humans? Humans on Madagascar trace their genetic ancestry to Southeast Asia and southeastern Africa in about equal proportions. The project will sequence Madagascan dog genomes and compare their genetic history and diversity to that of humans.

The student will receive broad training in genomics, bioinformatics, programming, population genetic theory and analyses of genetic ancestry and natural selection. This will also include training in human genomics, to perform cross-species comparisons between humans and dogs. The student will take part in journal clubs and departmental seminars, present their work at conferences and develop skills in critical thinking and science communication.

The ideal candidate will have a background in a biological science (e.g. genetics, molecular biology, zoology, evolution) or a quantitative science (e.g. computer sci-

ence, statistics, physics), and have strong interests in genomics, evolution and data analysis.

References: Grey wolf genomic history reveals a dual ancestry of dogs. Bergstrom et al., Nature 2022

Origins and genetic legacy of prehistoric dogs. Bergstrom et al., Science 2020

Insights into human genetic variation and population history from 929 diverse genomes. Bergstrom et al., Science 2020

Application deadline: 20th November 2023. Start date: 1st October 2024. For more information, including on how to apply, see: https://biodtp.norwichresearchpark.ac.uk/projects/genomic-adaptation-in-domestic-dogs/ For informal inquiries please contact Anders Bergstrom: a.bergstrom@uea.ac.uk

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A PhD position is available on the population genomics and evolutionary history of the red fox. The position will be based at the School of Biological Sciences at the University of East Anglia (UEA) in Norwich, UK, as part of the 3.5-year ARIES doctoral training program, and supervised by Dr. Anders Bergstrï¿½m.

Scientific background: Population genomics can reveal the evolutionary processes underlying the history and diversity of a species. Many studies have been done on endangered and extinct species, but little attention has been given to the flip side of the coin: thriving species. To understand what sets successful species apart from less successful ones, we need to study the full spectrum of evolutionary trajectories.

One species that is doing exceptionally well is the red fox (Vulpes vulpes). It is the land mammal with the largest natural distribution and occupies a wide range of habitats, from the deserts of Arabia to the tundra of the North American arctic, and even thrives in urban environments.

Research methodology: This project will use whole-genome sequencing of previously collected red fox DNA samples from across the globe, and perform population genetics analyses to address questions on their diversity and evolutionary history, including: - Is the success of the fox driven by genetic adaptation do the genomes of foxes living in different environments display evidence of local adaptation, including through local gene flow from other fox species? - What is the time depth of genetic diversification in the species did foxes in different parts of the world diverge genetically a long time ago, or is current diversity the result of recent expansion? - What factors best explain the shape of genetic relationships Ice Age climate changes, mountains, deserts, human societies, deliberate human translocation?

Training: The student will join the vibrant Organisms and Environment

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UEdinburgh FrogSpeciation

Genomics of frog colouration and the role of sexual and natural selection in speciation

Funding Status: Funding is in competition with other projects and students through Doctoral Training Programs (NERC and BBSRC DTPs, Darwin Trust)

Project Description Animal populations that use different adaptive strategies are an ideal study system to uncover processes involved in early stages of speciation. The aim of this study is to understand the interplay of natural and sexual selection in generating biological novelty by using strawberry poison frogs as a study system. Theses amphibians are widely distributed in the Bocas del Toro archipelago in Panama and show a remarkable colour polymorphism, with up to 18 different colour morphs occurring in sympatry and allopatry. To avoid predation, the frogs adapt one of two strategies: aposematism (conspicuous warning colouration) or crypsis (inconspicuous colouration that blends in with surroundings). Because strawberry poison frog morphs mate assortatively, differences in coloration driven by natural selection (the predator avoidance strategy) may interact with sexual selection (in this case mating strategy - preference for morphs of the same colour as oneself) and promote population differentiation. Thus, this study system offers a unique opportunity to investigate evolutionary forces that are at play in the early stages of speciation.

This project will make use of genomic and transcriptomic data to study demography, population differentiation, and the genomic basis of colouration and colour perception in multiple cryptic and aposematic strawberry poison frog populations. Research questions include: - What is the genomic basis of crypsis and aposematism? Is colouration determined by a few loci or does

it require changes in many genes? The genomics of colouration will determine the complexity of switching between predator avoidance strategies.

- What are the underlying changes in gene expression involved in generating colour polymorphism within the different strategies? How is the colour perceived and processed? - Does population history/demography play a role in the predator avoidance strategy? Previous studies suggest that the variation in colouration among populations have occurred through repeated loss of aposematism. Could this loss be associated with population bottlenecks? Drift (particularly if colouration is based on few loci) or negative selection in small populations where educating predators to avoid aposematic prey is not successful could be the driving forces.

The project relies on a comprehensive transcriptomic dataset of several frog tissues and low-coverage genomic data. This is primarily a computational project that will use publicly available and newly generated genomic resources to study population differentiation, population history, and gene expression. It will be conducted in collaboration with researchers in the UK, Sweden, Germany and the United States of America. The project will be jointly supervised by Katerina Guschanski (University of Edinburgh), Anna QvarnstrïÂ¿Â½m (Uppsala University), Carolina Segami (Duke University) and Simon Martin (University of Edinburgh).

Candidate requirements To be eligible for a PhD-student position the applicant should have at least an upper 2.1 degree in evolutionary biology, bioinformatics, or a related field. In the British system, candidates who have successfully finished their undergraduate degree (Honours) are eligible to apply. The technical skills of the candidates will be evaluated based on the experience with large-scale sequencing analyses and bioinformatics proficiency. Experience with transcriptomics will be an advantage. The ideal candidate will have a strong interest and documented knowledge in evolutionary biology, with a drive to understand processes involved in speciation. Perseverance and high intrinsic motivation are necessary to successfully complete a PhD project and overcome the unavoidable obstacles with data and analyses. You will be highly reliable, driven and well-organised, curious and willing to think outside the box, with the ability to quickly acquire new skills, and a person who enjoys working both independently and as part of a team.

The position will begin Fall 2024. Interested students should send a CV and a brief letter of interest to Dr. Katerina Guschanski (Katerina.Guschanski@ed.ac.uk) latest by November 15th. Please also reach out with informal questions.

More information about the research group https://www.ieg.uu.se/animal-ecology/Research+groups/guschanski-lab https://www.research.ed.ac.uk/en/persons/katerina-guschanski Further details and application instructions: The deadlines for the DTPs vary but supervisors have to propose candidates

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UGroningen Two ButterflyFlowerColorEvol

We offer a PhD opportunity aligned with a recently Human Frontiers Science Program-funded project into the evolution of butterfly coloration.

The natural world is resplendent with colour signals that are used by animals and plants to communicate. Most of these signals are matte in appearance, but there are also repeated instances where these signals appear glossy or shiny. The ability to produce a shiny colour signal results from dedicated and often highly complex features of a reflecting surface. Compared to variation in other signalling features, for example colour, we however have a limited scientific understanding of the ultimate function of variation in signal shininess. This project aims to explore and define the function of this important yet understudied dimension of visual communication in Papilio and Eurema butterflies.

Your PhD project involves: - Fieldwork in tropical Australia (Cairns) - Laboratory husbandry of butterflies - Behavioural experiments - Optical analyses of butterfly wings

This PhD is a double-degree programme between Macquarie University and University of Groningen. You will be based primarily at Macquarie University, but will spend at least 12 months at the University of Groningen. Upon completion, you will receive a double degree PhD. Scholarship funding: The position includes a full tuition scholarship plus a living allowance of AU$32,000+ p.a.. Generous funding is provided for research and international travel.

Closing date is 30 October 2023; the candidature should commence 1 February 2024.

We encourage interested, high quality candidates to contact us directly: Prof. Darrell Kemp Department of Biological Sciences, Macquarie University, Australia Email: darrell.kemp@mq.edu.au Dr Casper J. van der Kooi University of Groningen, The Netherlands Research: https://www.rug.nl/staff/c.j.van.der.kooi/-research Email: C.J.van.der.Kooi@rug.nl

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PhD on the visual and chemical ecology of flowers University of Groningen, The Netherlands

We offer a PhD opportunity funded by the Dutch Research Council (NWO) on flower evolution. The plant kingdom offers a bewildering diversity in flower colour and scent. This project studies how floral visual and olfactory signals have co-evolved with pollinator ecology and physiology. It will investigate how floral signals convey information on the type and composition of floral rewards, using techniques from optics, analytical chemistry, and evolutionary ecology.

Your PhD project involves: - Spectroscopy and microscopy to study colour - Chemical analytical techniques to study floral scent, pollen and nectar - Greenhouse growing experiments

The candidate will be employed at the University of Groningen for four years. The position includes funding for personal training and travel. Our labs are based at the Groningen Institute for Evolutionary Life Sciences in the city of Groningen, which is located in the northern part of the Netherlands and has a vibrant (student) life.

Deadline for the application is 30 October 2023. The candidature should commence early 2024. We encourage interested, high-quality candidates to submit a cover letter as well as a CV including contact information for 1-2 referees to both supervisors: Dr. Kira Tiedge: k.j.tiedge@rug.nl Dr. Casper J. van der Kooi: c.j.van.der.kooi@rug.nl https://www.rug.nl/-staff/c.j.van.der.kooi/research “c.j.van.der.kooi@rug.nl” <c.j.van.der.kooi@rug.nl>

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UKent AvainConservationGenomics

PhD studentship: Genomic analysis of extinction risk in birds. Supervisors Professor Jim Groombridge < https://www.kent.ac.uk/anthropology-conservation/-people/482/groombridge-jim >, Durrell Institute of Conservation and Ecology (DICE), University of Kent, Canterbury, Kent, UK. Professor Cock van Oosterhout, School of Environmental Sciences, University of East Anglia Dr Hernan Morales, GLOBE Institute, University of Copenhagen Dr Simon Tollington, School of Animal Rural and Environmental Sciences, Nottingham Trent University

Scientific Background

Understanding predictors of extinction risk is crucial to address the global biodiversity crisis. Whilst ecological predictors of extinction are well-known, the impact of genomic diversity is less-well understood. Reference genomes and resequencing data for many hundreds of species have become available to guide conservation, and the next challenge is to integrate these data with detailed ecological data and IUCN Red List of these species.

This PhD project will (i) identify and study genome features that can predict extinction risk across two well-studied groups of birds, parrots (Psittaciformes, 421 species) and falcons (Falconiformes, 66 species), and (ii) test whether immunogenomic diversity (and other genomic features) can predict species-specific differences in susceptibility to two viruses that are emerging infectious diseases.

The parrots and falcons share a recent evolutionary history and yet comprise the full range of Red List status, from non-threatened to extinct species, as well as highly invasive species. In this PhD studentship we ask the question what makes species vulnerable to extinction, and what makes others such successful invaders? Furthermore, each group of birds harbours a well-documented viral pathogen; Beak and Feather Disease Virus (BFDV) in Psittaciformes and Falcon adenovirus in Falconiformes. Closely related species differ markedly in their susceptibility to these viruses (i.e., mortality rate), and the PhD student will determine what underpins these differences.

Research methodology

The student will compile whole genome sequences for

each of the ~500 species from the available databases. Genomes for missing extant species will be sequenced using modern and museum samples accessible through existing collaborations with the zoo community. Extinct species will be sampled via museum collaborations. Genome data will be analysed using bioinformatic tools (including those developed by the supervisory team). Viral pathogen prevalence across each group will be data-mined from published literature.

Training

The student will receive comprehensive training in conservation biology and genomics of extant species DICE (Kent), theoretical evolutionary genomics (UEA), museum DNA sequencing and SLiM modelling (GLOBE Institute, University of Copenhagen).

Person Specification

We seek a highly motivated individual with expertise in bioinformatics, a strong academic background in natural sciences and a keen interest in conservation science.

References

* 1 van Oosterhout, C., Speak, S. A., Birley, T., Bortoluzzi, C., Percival-Alwyn, L., Urban, L. H., Groombridge, J. J., Segelbacher, G. and Morales, H. E. (2022) 'Genomic erosion in the assessment of species extinction risk and recovery potential', bioRxiv. doi: 10.1101/2022.09.13.507768. * 2 Femerling, G., Van Oosterhout, C., Feng, S., Bristol, R. M., Zhang, G., Groombridge, J. J., Gilbert, M. T. P. and Morales, H. E. (2022) 'Genetic load and adaptive potential of a recovered avian species that narrowly avoided extinction', BioRxiv. doi: 10.1101/2022.12.20.521169.Femerling, G., Van Oosterhout, C., Feng, S., Bristol, R. M., Zhang, G., Groombridge, J. J., Gilbert, M. T. P. and Morales, H. E. (2022) 'Genetic load and adaptive potential of a recovered avian species that narrowly avoided extinction', BioRxiv. doi: 10.1101/2022.12.20.521169. * 3 Jackson, H. A., Percival-Alwyn, L., Ryan, C., Albeshr, M. F., Venturi, L., Morales, H. E., Mathers, T. C., Cocker, J., Speak, S. A., Accinelli, G. G., Tollington, S. and van Oosterhout. (2022) 'Genomic erosion in a demographically recovered bird species during conservation rescue', Conservation Biology. Wiley. doi: 10.1111/cobi.13918. * 4 Wilder et al. (2023). The contribution of historical processes to contemporary extinction risk in placental mammals. Science 380 (6643), eabn5856. * 5 Fogell, D. J., Martin, R. O. and Groombridge, J. J. (2016) 'Beak and feather disease virus in wild and captive parrots: an analysis of geographic and taxonomic distribution and methodological trends', Archives of Virology. Springer, pp. 2059- 2074. doi: 10.1007/s00705-016-2871-2.

Key Information

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UMemphis EvolutionaryGenomics

The Puckett Lab in the Department of Biological Sciences at the University of Memphis is recruiting a highly motivated student for a PhD position in Evolutionary Genomics. Available dissertation topics include: adaptive introgression, or landscape genetics of deleterious traits. Projects would use North American populations of American black or brown bears as the system of inquiry.

Required Qualifications: Academic interests in evolution, genetics/genomics, and/or bioinformatics. Candidates should be organized, persistent, a team-player, and have strong writing skills.

Preferred Qualifications: A Master's degree, 2 years work experience, or a post-bac. Experience working within Unix/Linux or a programming language (R, perl, python, etc). Wet lab skills including DNA extraction, gel electrophoresis, and next-generation sequencing library preparation. Students interested in the link between evolutionary genomics and the conservation and management of species are encouraged to apply.

Students will receive five years of stipend support via TA-ships and tuition waivers. To learn more about the graduate program and intellectual community within the department, visit: http://www.memphis.edu/biology/ Please email Emily Puckett (Emily.Puckett@memphis.edu) with an informal inquiry or pre-application (CV and a cover letter highlighting relevant experience and motivation for the position) as a single pdf. I screen applications ahead of the formal application to the department to save students application costs. Informal reviews welcomed from Oct to Dec 2022; formal applications are due Feb 1, 2024 for entrance to the program in Fall 2024.

Emily E. Puckett, PhD 333 Ellington Hall- University of Memphis Memphis, TN 38152 https://puckettresearch.org/ "Emily Elizabeth Puckett (puckett3)" <Emily.Puckett@memphis.edu>

UMinnesota PlantPhylogenomics

The Yang Lab (www.yangya.org) at the University of Minnesota, Twin Cities is recruiting 1-2 graduate students to join our team in Fall 2024. We use phylogenetics and comparative transcriptomics and genomics to study plant systematics and the underlying mechanisms driving plant evolution. The lab mainly focuses on the plant groups Caryophyllales and Euphorbia, but students have the opportunity to develop their own independent projects. We provide competitive stipends and opportunities for teaching, research, and curatorial assistantships.

The University of Minnesota has many resources to support plant systematics and evolution research. These include the University of Minnesota Herbarium, the Minnesota Supercomputing Institute, the University of Minnesota Genomics Center, the University Imaging Center, the College of Biological Sciences Conservatory, onsite greenhouse facilities, Itasca Biological Station and Laboratories, and Cedar Creek Ecosystem Science Reserve. The campus is in the heart of the Minneapolis-Saint Paul metropolitan area, rich in cultural and natural attractions with extensive park and trail systems.

For inquiries, get in touch with Dr. Yang at yangya@umn.edu with a copy of your CV and a short description of your interests.

Ya Yang, Ph.D. *On sabbatical till May 2024* Associate Professor, Dept. of Plant and Microbial Biology University of Minnesota-Twin Cities 714 Biological Sciences Center 1445 Gortner Avenue St. Paul, MN 55108-1095 (612) 625-6292 http://www.yangya.org/ Curator, University of Minnesota Herbarium (MIN) Bell Museum University of Minnesota bellmuseum.umn.edu

Ya Yang <yangya@umn.edu>

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UMissouri StLouis EvoDevoPlantReproduction

Are you fascinated by the diversity of plants and their reproductive structures? Is your goal a career in academia, biotechnology, agriculture, or government agencies in the most botanically focused city in the world? The Marchant Lab is opening at the University of Missouri - St. Louis and is recruiting PhD students to start Summer or Fall 2024. We are particularly interested in students with a background in plant biology, cellular biology, developmental biology, evolution, bioinformatics, or conservation; however, highly self-motivated students with a passion for botany and science are welcome to get in touch.

Who we are: The Marchant Lab (https://-www.marchantlab.com/) is an innovative and collaborative research group at the forefront of both applied and basic plant sciences. We use single-cell RNA-sequencing (scRNA-seq), comparative genetics/genomics, and digitized herbarium specimens to investigate questions in plant reproductive biology, development, ecology, and evolution using both model and non-model plant systems. We are particularly interested in the biology and evolution of anthers. In the lab you will pursue a primary project plus there are ample opportunities for collaborative projects within the lab and with diverse cooperators. The lab atmosphere is supportive, inquisitive, and committed to providing each student with the most effective training cognizant with individual goals.

Where we are: We are based in the Biology Department at the University of Missouri - St. Louis (UMSL). With its world-class universities (UMSL, Washington University, St. Louis University), research institutions (Donald Danforth Plant Science Center, Missouri Botanical Garden), and agricultural companies (Bayer, Pivot Bio, Yield Lab), St. Louis has the highest concentration of plant science PhDs in the world and is an ideal setting for anyone interested in plant biology. St. Louis is one of the most livable cities in the US and was recently ranked the top city to start a career in.

If you are interested in joining the lab, email Dr. Marchant (dm9vh@umsl.edu) your CV and a brief statement on your background and research interests.

Applications for the UMSL Biology PhD program are due by December 15th and applications for the Masters

program are considered on a rolling basis. Teaching and/or research assistantships are guaranteed for PhD students for five years. The Marchant Lab welcomes international graduate students; however, please get in touch well before the December deadline as your applications must also go through the International Students Office.

Blaine Marchant <dbmarchant@gmail.com>

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UPavia TickPopulationGenomics

Milan and Pavia, Population genomics of ticks and their bacterials symbionts

Ticks are recognized as the most important vectors of diseases in Europe, but their distribution is changing and expanding. Ticks of the genus Ixodes, in particular, are widespread in the continent, with multiple species being competent vectors of highly impactful diseases, from the viral tick-borne encephalitis to the chronic, debilitating and hard to diagnose Lyme disease. Additionally, due to their peculiar and nutritionally unbalanced blood-based diet, ticks live in tight association with nutritional bacterial symbionts (e.g., Midichloria mitochondrii).

This project will introduce a novel approach to study populations of Ixodes ticks, in particular Ixodes ricinus. Specifically, we will establish a novel triangulated population genetic approach. Leveraging a set of tick specimens collected across the European continent, for each specimen we will determine the full mitochondrial genome, a representative set of nuclear SNPs by RAD-Seq, and a set of typing loci for the bacterial symbionts.

Thanks to this approach, ticks will be characterized at an unprecedented detail, allowing us to answer basic evolutionary biology and demography questions on ticks, including the consistence between genetic and morphological diversity, and the role of geographical boundaries in the tick diversification. Moreover, the relationship between the Ixodes ricinus and other co-occuring congeneric species will be explored, as well as the transmission modes (vertical or horizontal) of symbionts through Ixodes populations. The knowledge that will be generated will lay the foundation for novel, data informed, efforts for tick monitoring in Europe.

The hired candidate will be involved in a friendly and collaborative research environment. In particular, this project will be carried out in synergy with multiple research groups at the University of Milan and the University of Pavia, Italy, namely research groups of Claudio Bandi (Milan), Davide Sassera (Pavia), Antonio Torroni and Anna Olivieri (Pavia).

The candidate should have a strong interest and background in evolutionary biology and population genetics. Since the role of the hired personnel in the project will be focused strictly on in silico analyses, previous experience in computational biology, in particular in population genetic and genomic analyses, will be a preferential selection criterion.

Period: starting in early 2024, duration 1-2 years (flexible) Title: flexible for Pre- or Post-Doc, depending on the applicants' profiles

Please send your CV, the names and contact information of two references as well as a letter of interest to both the contacts below:

Claudio Bandi claudio.bandi@unimi.it Davide Sassera davide.sassera@unipv.it

Davide Sassera <davide.sassera@unipv.it>

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USouthAlabama BirdMigrationBehavior

Master's Student Position Available Fall 2024

Interested in migration and seasonal behavior more broadly? I am looking to recruit a MS student for Fall 2024 to work on a NSF funded project exploring the neural and physiological mechanisms regulating seasonal migration in birds. The project will combine both field and laboratory work responsibilities. Experience conducting field work under variable conditions is strongly preferred, while experience working with songbirds or similar is a bonus, but not required.

Come join our awesome team at the University of South Alabama. Review of applications will begin on 12/15/2023.

Interested students should email Dr. Jonathan Perez (jhperez@southalabama.edu) with CV and a short statement describing relevant past experience and why they are interested in working on this project. This does not need to be lengthy, a paragraph or two is sufficient,

maximum 1 page. I am also happy to answer questions regarding the position or graduate program via email.

Short-listed candidates will be contacted for interviews following the review period. Anticipated interview dates (Jan and Feb). Finalists will be required to complete a formal application through the graduate school application portal.in order to be formally offered the position.

You can learn more about the department and how to apply at https://www.southalabama.edu/colleges/artsandsci/biology/ Jonathan Pï¿½rez, PhD (He/Him/His) (P): 251-460-7527 jhperez@southalabama.edu Dept. of Biology, Assistant Professor Univ. of South Alabama 133 Earth and Life Sciences Building 5871 USA Dr. N Mobile, AL 36688 southalabama.edu

Jason Strickland, Ph.D. (He/Him/His) Interim Assistant Chair and Assistant Professor, Department of Biology Adjunct Assistant Professor, Department of Microbiology and Immunology University of South Alabama Earth and Life Sciences Building Room 222 (ELSB 222) 5871 USA Dr. N Mobile, AL 36688 Office: 251-460-7310 @ssstingˍlab < https://www.instagram.com/ssstingˍlab/ > on Instagram @SSSTINGˍLab < https://twitter.com/SSSTINGˍLab > on Twitter

Schedule a meeting < https://usajaguars.campus.eab.com/pal/Q15JkTDe2ˍ > for office hours or advising with me

Jason Strickland <jasonstrickland@southalabama.edu>

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USouthBohemia Czechia ProtistEvoMolBiology

Laboratory of Molecular Biology of Protists of the Institute of Parasitology, Biology Centre, Czech Academy of Sciences and Department of Molecular Biology and Genetics, Faculty of Science, University of South Bohemia in -esk?? Bud??jovice are looking for highly motivated candidates for a PhD position in Protist Molecular Biology.

We are a well-established laboratory studying several molecular aspects of (mostly) parasitic protists. We are interested in various aspects of biology of the trypanosomatid and diplonemid flagellates. These are protists that branched off the main eukaryotic lineage and contain numerous departures from the prototypical eukaryotic cell. In trypanosomes we explore (by knock-downs and -ins, tagging, overexpression) proteins involved in RNA editing, tRNA import and modifications, heme metabolism, and mitochondrial morphogenesis. In diplonemids we explore their evolution, diversity, morphology, metabolism, and structure of mitoribosomes.

More info: (https://www.paru.cas.cz/en/sections/molecular-parasitology/laboratory-of-molecular-biology-of-protists/).

The joint University and Academy campus in -esk?? Bud??jovice provides a vibrant research environment.

The research topic will be focused on various aspects of molecular biology of marine protists (for publications see here: https://www.paru.cas.cz/en/sections/molecular-parasitology/laboratory-of-molecular-biology-of-protists/list-of-publications/).

What do we offer

- we possess a strong and continuous funding, which allows to supplement the standard PhD salary

- PhD fellowship & part-time job employment on research grants

- support for career development and mentoring

- stimulating English language environment

- international team and collaboration and opportunities to travel

- meals allowance, full health insurance, student benefits,

- administration support with relocation & settlement in the Czech Republic,

- work-life balance in a middle-sized university city offering options for outdoor, sport & cultural activities.

Requirements

- Master degree in Life Sciences

- strong interest in research

- fluency in English

- flexibility and ability to work both independently and in a team

THE APPLICATION DEADLINE IS Sept 30 2023.

Preferred starting date is autumn/winter 2023 but is negotiable.

To apply please send your application including a complete CV, a copy of your degree certificate (the master degree in Life Sciences is required), a letter detailing your motivation to apply with a concise summary of your previous research activities, and contact information of

one referee to veronikaprantlova@gmail.com

Please note that selected candidate will also need to submit an application for admission as a graduate student. More information : https://www.prf.jcu.cz/data/files/-8/148/153/4340prihlaskaeng2019.pdf Butenko Anzhelika <anzhelika.butenko@paru.cas.cz>

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USouthCarolina Evolution

The faculty of the Evolutionary Biology group in the Department of Biological Sciences at the University of South Carolina are recruiting graduate students (M.S. and Ph.D.) to start in Fall 2024.

We seek applicants who are highly motivated and enthusiastic, keenly interested in evolutionary biology, and looking to join a dynamic group of evolutionary scientists. Our department also has strengths in ecology, marine biology, neurobiology, and plant biology, and many of the evolution faculty participate in those groups as well. More information about our Department can be found at https://www.biol.sc.edu . Graduate students in our program are guaranteed financial support through TA and RA appointments for five years, including tuition and health insurance. Outstanding applicants will be nominated for a variety of university fellowships.

Applications should be submitted by December 1st to ensure full consideration for all funding opportunities. Potential applicants should contact one or more of our faculty before the deadline to discuss their interests; students are admitted only with the endorsement of a faculty member. This year, the USC Graduate School has waived application fees. Additional information on our graduate program, including instructions on how to apply, can be found at https://sc.edu/study/colleges_schools/-artsandsciences/biological_sciences/study/graduate/ . The members of the Evolution Group, their areas of interest, and links to websites are below.

Labs potentially considering applicants this year include:

Carol Boggs (boggscl@mailbox.sc.edu) (Considering M.S. candidates only)

Evolutionary ecology & genetics; physiology, resource allocation, invasions, small populations. See https://-boggslab.org/ Jeff Dudycha (dudycha@biol.sc.edu)

Evolutionary ecology & genetics; life history, phenotypic plasticity, diversification, vision/eyes, mutation. See http://www.tangledbank.org/ Bert Ely (ely@biol.sc.edu)

Evolutionary microbiology & genomics. See http://research.cas.sc.edu/ely/ Brian Hollis (brian.hollis@sc.edu)

Evolutionary genetics; sexual selection and sexual conflict, experimental evolution. See https://-/experimentalevolution.org/ Tim Mousseau (mousseau@sc.edu)

Evolutionary ecology & genetics; ecological and evolutionary consequences of radioactive contaminants. See https://sc.edu/study/colleges_schools/-artsandsciences/biological_sciences/our_people/-directory/mousseau_timothy.php Dan Speiser (speiser@mailbox.sc.edu),

Sensory ecology, neuroethology, physiology, and macroevolution. See https://www.speiserlab.com/ ...and joining our faculty in January 2024,

Kathy Toll (ktoll@mailbox.sc.edu)

Evolutionary ecology & genetics; local adaptation, habitat segregation, plant ecology. See https://scholar.google.com/citations?user=-gjxiWO4AAAAJ&hl=en . Additional Labs in the Evolutionary Biology Group are not considering new grad students this year, but contribute to the educational environment for graduate students in evolutionary biology. These labs include:

Jerry Hilbish: Evolutionary ecology & genetics; hybrid zones & speciation, species ranges, climate change

Joe Quattro: Evolutionary genetics; population & conservation genetics of rare/threatened aquatic animals

Carrie Wessinger: Genetics/genomics of adaptation, parallel evolution, plant speciation.

Our department is located in the heart of Columbia, South Carolina, a metropolitan area of 750,000 people (and 186,000 dogs!). Columbia ("Cola" or "Soda City" to locals) enjoys more than 300 days of sunshine annually and has ready access to clean beaches, lakes, rivers, and mountains. Congaree National Park, Sesquicentennial State Park, Lake Murray, and Harbison State Forest offer excellent wilderness areas nearby, along with several greenways on the city's three rivers. The Famously Hot/Surprisingly Cool city hosts historical and cultural attractions, performing arts and sporting events, and many annual festivals including the Rosewood Crawfish Festival, the Indie Grits Film Festival, the Famously Hot SC Pride Festival, and Reggaetronic, a floating music festival on Lake Murray. See https://-

www.experiencecolumbiasc.com/ for more information.

Jeffry L. Dudycha Professor Dept. of Biological Sciences University of South Carolina Columbia, SC 29208

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UTexasPermianBasin InsectPlantEvolEcol

The Hembry Lab in the Department of Biology at the University of Texas Permian Basin is recruiting three (3) master's students to fill paid research positions in the evolutionary ecology of insect-plant interactions, supported by an NSF BRC-BIO grant to Dr. David Hembry. I am expecting to fill 1-2 positions in Fall 2024 and the remaining positions in Spring 2025 and/or Fall 2025.

Research in the Hembry Lab primarily focuses on the evolution and ecology of species interactions, with particular focus on brood pollination symbioses between leafflower plants (family Phyllanthaceae) and leafflower moths (genus Epicephala). This relationship is usually mutualistic, with the moths pollinating their host plants and the moths' caterpillars eating a subset of the host's seeds. However, this mutualism has also repeatedly evolved to become parasitic, in which the moths cease to pollinate their host plants. All three open master's positions concern the biology of this mutualism-parasitism transition, and especially focus on the biology of parasitic leafflower moths found in the United States.

I am recruiting applicants to work on the following three projects:

- Two MS students will conduct research on the population genomics and phylogeography of leafflower moths and their host plants in the southern United States. One student will focus on cophylogeography of a widely distributed species pair (the leafflower Nellica polygonoides and its undescribed moth species) in Texas, New Mexico, and Oklahoma. The other student will examine host-associated population divergence of an undescribed leafflower moth species on its three host plants (native leafflowers Phyllanthus evanescens and Moeroris abnormis and the recently introduced Moeroris fraternus) in Texas, Louisiana, and Florida. Both students will have training visits to the laboratory of Dr. Katrina Dlugosch (University of Arizona). These projects will involve a roughly equal mixture of fieldwork, labwork, and computer-based analyses.

- One MS student will conduct research on the bacterial microbiomes of leafflower moths, examining variation in microbiomes among host plant genera and across the mutualism-parasitism transition. This student will be co-advised by Dr. David Hembry and Dr. Athenia Oldham (Department of Biology, UT Permian Basin), and will have a training visit to the laboratory of Dr. Gordon Bennett (University of California, Merced). This project will primarily consist of labwork and computer-based analyses, with some fieldwork.

Each of the three master's projects is designed to result in a single first-authored peer-reviewed manuscript for the student.

These are paid positions for which recruited applicants will receive four semesters of stipend, two years of summer salary, and have four semesters of tuition and fees covered. Costs associated with fieldwork, labwork, and the training visits to larger institutions for each student are also covered by the grant. Each student will also have the opportunity to mentor a UTPB undergraduate for at least one summer in research.

Desired qualifications: - Interest in evolution, ecology, species interactions, symbiosis, or coevolution - Undergraduate degree (received or expected) in biology or a related field - Prior research experience, especially in biology (fieldwork or labwork) or another natural science - Knowledge of statistics or programming (especially R or Python) is fantastic but neither expected nor required.

These are good positions for students interested in: - Evolutionary ecology, species interactions, coevolution, mutualism, parasitism, and evolution - Insects and/or native plants - Fieldwork in the south central and southeastern United States - Pursuing a master's degree in evolution or ecology in advance of applying to a PhD program - Learning about bioinformatic methods and the use of next-generation sequence data in the lab and on the computer - Mentoring of first-generation undergraduate students from diverse backgrounds in research

The University of Texas Permian Basin is a public university in the University of Texas System, located in Odessa, Texas where three ecoregions of Texas (the Llano Estacado, the Edwards Plateau, and the Chihuahuan Desert) converge. UT Permian Basin is a master's level institution with an undergraduate population that is majority-first generation and majority-Hispanic/Latino. Odessa is part of the Odessa-Midland

metropolitan area (population 340,000 with a domestic airport) and is located 2.5 hours from Lubbock, 3 hours from Carlsbad Caverns and Guadalupe Mountains national parks, 4 hours from El Paso, 5 hours from Las Cruces, New Mexico and Big Bend National Park, and 6 hours from Austin and Dallas/Fort Worth.

To apply, please send Dr. David Hembry (hembry_d@utpb.edu) the following via e-mail: (1) a short statement (1-2 paragraphs) explaining past research experiences and reasons for interest in the position;

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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

UWyoming AvianAdaptation

I am recruiting a graduate student to join my lab at the University of Wyoming in Fall 2024. Students interested in pursuing either a MS or PhD are encouraged to get in contact with me.

While students in my lab have the flexibility to design projects tailored to their individual interests, projects are expected to focus on questions related to speciation and adaptation in North American birds. Much of our work uses avian hybrid zones as models for understanding the processes important in generating and maintaining reproductive isolation between closely related species and students with similar interests are particularly encouraged to contact me. All of our work involves the collection or use of museum specimens. Please visit carlinglab.com for more information on recent research efforts.

Students will be supported through a mix of Research Assistantships, Teaching Assistantships, and Curatorial Assistantships, which include a stipend, tuition and fees and health insurance. Please contact me with specific questions about both the types and levels of support.

With a population of ~31,000, Laramie is a small college town, situated in a high plain between the Snowy Range (~30 miles west) and the Laramie Range (~7 miles east) in Southeastern Wyoming. It is a little over one hour north of Fort Collins, Colorado and ~2.5 hours from Denver. For better or worse, it was recently profiled in Outside Magazine as the Most Affordable Mountain Town in the West.

In my lab, I value curiosity driven research and aim to support students motivated by basic research questions. Other desired qualifications include a background in evolutionary biology, field experience, preferably with birds, and scientific writing skills. In addition, while past experience with natural history museums is not a specific requirement, a strong desire to contribute to the University of Wyoming Museum of Vertebrates (www.uwymv.org) is needed. My lab also aims to be an inclusive space that welcomes diversity and seeks to broaden access to and participation in evolutionary biology and ornithology. All interested students, regardless of race, ethnicity, sexual orientation, gender identity, class, disability, and past experiences are encouraged to apply.

To apply, please send a cover letter, current cv, and names and contact information for 3 references to mcarling@uwyo.edu. In your cover letter, please include some questions that excite you and information about your past relevant experiences and motivation for pursuing a graduate degree. If you have any questions about the opportunity, the University of Wyoming, or anything else, please don't hesitate to contact me. While applications may be submitted at anytime, final review will begin 8 December 2023.

Matt Carling, PhD Department of Zoology & Physiology Berry Biodiversity Conservation Center University of Wyoming

www.carlinglab.com mcarling@uwyo.edu

Pronouns: he, him, his

"Matthew D. Carling" <mcarling@uwyo.edu>

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UYork ClimateChangeButterflyGenomics

Genetic consequences of climate change-induced range shifts in Aricia butterflies

Lead Supervisor: Prof K Dasmahapatra (Department of Biology, University of York)

Co-supervisors: Dr Rachel Pateman (University of York, Department of Environment and Geography) Dr David Roy (Centre for Ecology and Hydrology) Prof Chris Thomas (Department of Biology, University of York) Dr Simon Duffield (Natural England)

Project Description The evolutionary consequences of climate change are poorly understood. One area that needs further investigation is what happens when historically geographic separated but related species come into contact with each other due to climate-driven shifts in their distributions.

One example is between the southern brown argus butterfly which has moved northwards in Britain since the 1980s and has recently colonised parts of the distribution northern brown argus. This provides a model system enabling us to 'catch' hybridisation in mid-process. This studentship will examine the extent to which hybridisation is taking place, the evolutionary consequences of this and ultimately assess the likelihood of survival of the northern species.

You will: - Quantify whether phenotypic changes have taken place in both species since ˜1900, focusing on the number of generations per year and likely hostplants of populations. - Establish levels of gene flow along a north-south transect, and identify whether this is resulting in the development of a hybrid zone. - Identify genes involved in new adaptations to host plants and number of generations per year, and evaluate whether adaptive genes are passing between the Aricia species. - Estimate rates of expansion and gene flow, and assess the potential for introgression versus species replacement.

The project will involve fieldwork in Britain, lab work, and the bioinformatic analysis of genome sequences. You will benefit from using high quality genome assemblies from the Darwin Tree of Life Project and ecological data from the UK Biological Records Centre and Butterfly Conservation. You will have access to York's dynamic research centres, the Leverhulme Centre for Anthropocene Biodiversity (https://www.york.ac.uk/anthropocene-biodiversity/) and the Stockholm Environment Institute (https://www.sei.org/centres/york/), as well as supervision from Natural England.

Further project details can be seen at: https://-www.york.ac.uk/res/dasmahapatra/aricia_phd Essential and desirable criteria: The project is particularly suited to someone with a background in genetics and interests in understanding the evolutionary consequences of global change.

To apply, go to: https://www.findaphd.com/phds/-project/fully-funded-nerc-acce-dtp-biology-project-genetic-consequences-of-climate-change-induced-range-shifts-in-aricia-butterflies/?p161473 The start date is 1st October 2024. Application deadline is 8th January 2024 (with interviews in February 2024). For any informal enquiries please email kanchon.dasmahapatra@york.ac.uk

More information about the research group https://-www.york.ac.uk/res/dasmahapatra/ The project involves as partners Natural England and Butterfly Conservation. Your project will be co-supervised by the non-academic partner organisations, and you will spend 3-6 months on a placement with your CASE partner in their workplace. You will experience training, facilities and expertise not available in an academic setting, and will build business and research collaborations. Your CASE partner will also contribute an additional 2000 per year towards research expenses.

Funding Notes Appointed candidates will be fully-funded for 3.5 years which includes: - Tax-free annual UKRI stipend (18,622 for 2023/24) - Tuition Fees at UK fee rate (4,712 for 2023/24) - Research and training expenses

Kanchon Dasmahapatra (kanchon.dasmahapatra@york.ac.uk) Professor of Evolutionary Biology Director of Postgraduate Research (Biology) Department of Biology University of York York YO10 5DD Tel: +44 (0)1904 328635 http://www.york.ac.uk/-res/dasmahapatra/ kanchon.dasmahapatra@york.ac.uk

UZaragoza Spain GrassFungalCoevolution

We are currently seeking an enthusiastic and motivated PhD student to join our Bioflora research group to work with us on co-evolution and adaptive speciation of pooid grasses and their fungal endophytes. We invite applications from ambitious candidates with relevant research experience and passion to conduct research and innovation activities on the framework of a project funded by the Spanish Ministry of Science and Innovation (PID2022-140074NB- I00). The main objective of this research is to advance knowledge on the potential large extent of lateral gene transfer (LGT) in pooids and how this mechanism has contributed to generating evolutionary novelty, and on potential co-evolution of grass-Epichloï¿½ holobionts and how this phenomenon has additionally contributed to the success of adaptive speciation in the temperate grasses. The specific objectives aim to (i) generate a large representative pan-genome and pan- transcriptome evolutionary framework of Pooideae for robust analysis of LGT events between phylogenetically distant lineages using newly sequenced

genomes of Loliinae and Brachypodium species plus available genomes of other grass tribes, (ii) identify confident LGT events in Pooideae through comparative genome analyses using genome synteny, mapping, and coding-sequence scanning approaches, and phylogenetic filtering, (iii) analyze the level of expression of the laterally-transferred encoding genes in the recipient species and of the native genes, and identify the biological functions of the LGT genes that confer evolutionary novelty and putative enhanced adaptability, (iv) characterize the nature and abundance of transposon families across the analyzed genomes and lineages, and identify possible horizontal transposon transfer (HTT) linked to LGT and their potential effect on gene expression, and (v) search for potential horizontal gene transfer (HGT) events of fungal endophyte genes into the pooid genomes through comparative genomic analyses of grass genomes and newly generated and available Epichloï¿½ genomes and evaluate the expression levels of foreign genes and the potential evolutionary adaptive advantages conferred to the plant.

PhD characteristics: - Cotutored PhD thesis. Supervisor/s: Prof. Pilar Catalan (University of Zaragoza) and Prof. Jianquan Liu (Lanzhou University) - Job location: High Polytechnic School of Huesca, University of Zaragoza, Huesca (Spain) - Full-time position (37.5 h/week) - Terms of appointment: The duration of the PhD candidate contract will be for four years.

Tasks and responsabilities: The ones corresponding to a PhD student. The selected candidate will be enrolled at the PhD program of Agricultural and Environmental Sciences in the University of Zaragoza and will need to fulfil the academic requirements of the PhD program. The specific tasks include: - Perform literature review, field, garden and growth chamber work, laboratory analyses, and data collection and management. - Perform genomic assembly and annotations, comparative genomics, phylogenomics and population genomics. - Write Scientific articles - Contribute to the teamwork and team-spirit in the research line.

Required qualifications and experience: Candidates must hold one of the following - BSc degree: Biological Sciences, Agronomy, Biotechnology or similar. - Master degree: Plant genetics, Evolution, Biodiversity, Plant breeding or similar Candidates must be in a position to access a doctoral program according to the requirements of Spanish universities (accrediting between 60 and 120 ECTS credits at an official university master's degree level or equivalent).

Candidates should not have a previous PhD degree. Desirable requirements: - Proficiency in English - Analytical and organizational capacities - Good communication skills - Ability to work as part of a team - Driver license

Application process: If you wish to be considered for this position, please, send an email message to Prof. Pilar Catalan (pcatalan@unizar.es) to the job post with reference FPI-PID2022-140074NB-I00 and upload your CV and motivation letter. All information will be treated in the strictest confidence.

Miguel Campos <minutoides@gmail.com>

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VirginiaInstMarineSci EvolutionAlgalSex

The Krueger-Hadfield Lab at the Virginia Institute of Marine Science is recruiting a MS and PhD student for Fall 2024. The lab focuses on algae as model systems to resolve one of the great paradoxes in biology - the evolution of sex - in which we integrate approaches from population genetics, physiology, and population and community ecology in marine, freshwater, and alpine micro- and macroalgae. The central thread of our research has direct implications for understanding the evolution of biodiversity, transcending taxonomic designations.

The MS student will focus on on-going work developing protocols for snow and ice algal population genetics. The majority of eukaryotes are unicellular and alternate between sexual and asexual reproduction (i.e., partial clonality). Yet, our understanding of their evolution is limited due to inherent challenges of studying these taxa using tools and predictions that were developed in multicellular (and often obligately sexual) taxa. These tools are often not tractable in microbial eukaryotes where generation times are short, population sizes can be large, and extracting DNA from unique individuals is difficult. This project continues work that was funded by the National Science Foundation and the student will have opportunities to collaborate with colleagues in the US and in Europe working on snow and ice algae.

The PhD student will be involved with research funded by an NSF CAREER award (DEB-2141971). Marine macroalgae are emerging commodities in the blue bioeconomy. Yet, we lack basic biological knowledge that is often readily available for other organisms of ecological or economic importance. This is compounded by the absence of macroalgal expertise in the mid-Atlantic

regions and a lack of understanding of macroalgal ecology in soft sediment habitats as compared to rocky shores - an acute issue in the Chesapeake where the last macroalgal species list was published more than 40 years ago. These gaps restrict the responsible development and management of algal resources for ecosystem productivity, climate mitigation, and aquaculture, but also exacerbate our ability to forecast the consequences of climate change in important primary producers in this region. Possible projects include population genetic analyses focused on the reproductive system, phenotypic investigations of haploid and diploid phases of the red algal life cycle, and community science engagement along the Eastern Shore of Virginia.

Students will be encouraged to develop projects that complement the existing research foci of the lab.

Find out more information about VIMS at https://www.vims.edu/education/graduate/admissions/index.php . Interested applicants need to contact Dr. Krueger-Hadfield at sakh@vims.edu with the following information by 1 December 2023:

CV (include GPA and relevant coursework from undergraduate and graduate studies as appropriate)Short statement about research interests and how they complement existing expertise in the lab

"Stacy A. Krueger-Hadfield" <sakh@vims.edu>

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Jobs

AngeloStateU NHC CollectionsManager

Collections Manager of Angelo State Natural History Collections

Job Summary/Description: Under supervision of the Curators and Department Chair, this position manages the specimen collections (teaching and scientific) and databases (Arctos and Symbiota) in the Angelo State Natural History Collections (ASNHC), which include Mammalogy, Ornithology, Herpetology, and Frozen Tissue collections, and an Herbarium.

Typical Duties/Job Duties: Operational management of research and teaching collections in the ASNHC, to include the Mammalogy, Ornithology, Herpetology, and Frozen Tissue collections, and the Herbarium.ASNHC duties are varied, but typical job functions include (but are not limited to):

- Collection, preparation, cataloging, and maintenance of specimens

- Maintaining collections databases (Arctos and Symbiota)

- Record keeping, such as tracking loan activity and managing permits associated with specimens

- Supervision of student workers, visiting researchers, and volunteers in the collection

- Participation in outreach activities such as conducting tours of the collection and assisting with the annual newsletter

- Assisting curators with courses and expeditions where field collection of specimens will occur

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

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

Salary: $34,611 - $38,752

Full job description: https://employment.angelo.edu/postings/5018 Edson F. Abreu Assistant Professor, Curator of Mammals

Department of Biology, Angelo State Natural History Collections Angelo State University Member, Texas Tech University System ASU Station #10890 San Angelo, TX76909-0890 Phone:325-942-6656 eabreu@angelo.edu https://eabreu.weebly.com Edson Abreu <edson.abreu@angelo.edu>

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AustinPeayStateU Three EvolutionEcology

The Department of Biology at Austin Peay State University in Clarksville, TN is hiring 3 tenure-track (9-month) positions for Fall 2024:

Aquatic Biologist: We seek a colleague whose research focuses on freshwater macroinvertebrate communities. The successful applicant will be expected to actively engage in teaching both undergraduate and graduate (M.S.) classes and will have the opportunity to teach in a variety of courses including General Biology, Aquatic Biology, Aquatic Macroinvertebrate Biology, and other existing or developed courses in their area of expertise. More information can be found at the job posting: (https://apsu.peopleadmin.com/postings/15998).

Plant Evolutionary Biology: The area of specialty is open, but we are especially interested in candidates who will utilize non-model plant species found in the central or eastern US, and who will develop a field component to their research program. Teaching expectations for this position include General Biology and plant-related undergraduate and graduate courses in the department as well as the development of other courses in the successful applicant's area of expertise. More information can be found at the job posting: (https://apsu.peopleadmin.com/postings/16003).

Disease Ecologist/Biologist: Potential areas of interest include Human Diseases, Ecophysiology, and Host-Pathogen Interactions. The successful applicant will be expected to engage in sustained and substantive research that includes direction of undergraduate and graduate students. Areas of interest include but are not limited to: (1) molecular mechanisms of human diseases, (2) ecophysiology, (3) patterns of disease, and (4) evolution of disease. Teaching expectations for this position include General Biology and upper division courses, with labs, in the candidate's area of expertise. More information can be found at the job posting: (https://apsu.peopleadmin.com/postings/16025).

We are seeking a colleague whose interests complement

and expand existing departmental strengths in ecology, evolution, and organismal biology. We are seeking candidates with experience in mentoring students from diverse backgrounds and a commitment to improving access of under-served populations to graduate and professional programs in biology. A typical teaching load is two lectures and two labs per semester. Successful applicants are expected to actively participate in undergraduate and graduate (M.S.) education and research. Modest research space, startup funds, and shared equipment will be made available. In addition, they are expected to contribute to undergraduate and graduate teaching and advising, aid in curriculum development, and provide service to the Department and College. Applicants should have a Ph.D. in Biology, Ecology and Evolutionary Biology, or closely related field; ABD will be considered if all requirements are met by date of hire. Postdoctoral experience is preferred. Documented record of scholarly achievement and demonstrated ability to develop an extramurally funded research program appropriate for a regional university is expected. The successful applicant will be expected to engage in sustained and substantive research that includes direction of undergraduate and graduate students.

"Benowitz, Kyle M." <benowitzk@apsu.edu>

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ChicagoBotanicGarden ConservationScientist

Please see the position ad below. The person in this role would join a team of scientists focusing on a range of evolutionary, ecological, and conservation research.

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Position overview:

We seek early-career applicants who have spatial analysis expertise and are interested in dedicating their first year in this role to co-creating a research program with diverse regional partners to tackle impactful regional questions in urban ecology. The successful candidate will join a highly collaborative group of scientists focused on addressing key conservation and restoration challenges. In addition to conducting research, the successful candidate will serve as faculty in our joint Plant Biology and Conservation graduate program with Northwestern University < https://plantbiology.northwestern.edu/ >. All scientists participate in education programs as well as community and Garden-wide engagement activities. Start date is flexible with a preference for early 2024.

To apply:

Please visit this link for the full job posting and to apply < https://tinyurl.com/CBGConservationScientist >. In addition to the Garden application materials, in lieu of a cover letter, please submit: (1) curriculum vitae that highlights experience working with partners, grants, and publications; (2) statement on your proposed research that combines spatial analyses expertise to build an impactful urban ecology program, including examples of how you have or will work with internal or external partners to design, implement, and apply results (1-2pgs); (3) statement on how you can contribute to the Garden's diversity, equity, inclusion and accessibility goals Equity, Diversity, Inclusion, and Accessibility < https://www.chicagobotanic.org/info/-equity_diversity_inclusion_and_accessibility > including on respectful and equitable work with partners (max 1 pg); and (4) contact information for three references. Review of applications begins October 23, 2023 and will continue until a suitable candidate is hired. Contact Andrea Kramer at akramer@chicagobotanic.org with any questions.

Nyree Zerega <nzerega@chicagobotanic.org>

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EasternIllinoisU EvolutionaryPhysiologist

Eastern Illinois University Animal Physiologist, Department of Biological Sciences Position Announcement

The Department of Biological Sciences at Eastern Illinois University (www.eiu.edu/biology) is seeking an Animal Physiologist at the rank of Assistant/Associate Professor (tenure-track), beginning August 2024. Candidates must have a Ph.D. or equivalent degree, and postdoctoral experience is preferred (excellent ABD candidates will be considered). Candidates with research focus on the physiology of any taxa are encouraged to apply, with specialization in herpetology, ornithology, or invertebrates particularly encouraged to apply. Demonstrated commitment to diversity and experience promoting inclusive excellence required. The successful candidate will be expected to develop an externally-funded research

program involving both undergraduate and graduate (Master's level) students. Teaching responsibilities include undergraduate courses in animal physiology, as well as undergraduate and graduate courses in the candidate's area of expertise. Competitive salary (starting at $63,000 annual) commensurate with qualifications, excellent benefit and retirement package, and a competitive start-up package will be available. Faculty at EIU are represented by the EIU Chapter of UPI Local 4100.

APPLICATION REVIEW DATE: November 30, 2023
APPLY TO: Dr. Elliott Zieman, Chair of the Search Committee

Applicants must submit a cover letter, curriculum vitae, statement of teaching philosophy, statement of research interests (that highlights the involvement of students), a diversity, equity, and inclusion statement, and contact information for at least three professional references. Application materials must be submitted as separate files using Interfolio http://apply.interfolio.com/133156. Questions about the search may be directed to Dr. Elliott Zieman, Chair of the Screening Committee, at eazieman@eiu.edu.

Review of applications will begin on November 30, 2023.

The Department of Biological Sciences at Eastern Illinois University (www.eiu.edu/~biology) has a diverse faculty with strong expertise in organismal, environmental, and molecular biology. The Department includes 15 tenure-track faculty, 7 instructors, and 4 support professionals, along with ~350 biology majors, many of whom are majoring in our Environmental Biology, Clinical Laboratory Science, or Teacher Certification programs. Our graduate program includes ~100 students across our research and non-research (including online) Master's programs. The department is research-focused, with student training and presentations being an integral component of our programs.

Diversity and Inclusion: Eastern Illinois University is committed to fostering a learning community where all members feel welcomed and valued. The university provides equality of opportunity in all areas of campus life and we strive to recognize and appreciate the unique value of our students, faculty, and staff. Every member of campus has the right to learn and work in an environment free of discrimination and harassment, and beyond that, our goal is for all members of our community to develop a strong sense of belonging to Eastern Illinois University.

The University and Community: Eastern Illinois University takes pride in creating a warm, welcome environment for all faculty, staff and students. Established in 1895, EIU boasts a rich, tradition of preparing students for their personal and professional goals. A traditional regional residential institution, EIU offers a superior education at a relatively low cost while consistently earning high rankings and distinctions for its affordability, academic program quality, career placement rates, campus safety, online degree options, student support, and sustainability initiatives. EIU focuses on individualized attention and superior student relationships and has earned recognition as the highest- ranking independent public regional university in Illinois and a place among the Midwest's top public regional universities according to U.S. News and World Report. Eastern offers faculty a wide range of research and public service activities. EIU hosts more than 175 student organizations on campus, and offers a variety of cultural events, NCAA Division I athletics, and active research opportunities for its students to enjoy and to thrive. EIU has become recognized for providing the resources of a large institution while creating the kinds of individual relationships that support student and alumni success. The university offers insurance benefits to same-sex domestic partners. The university offers benefits to spouses. Eastern Illinois University places priority on teaching excellence for a student body in a residential setting. Approximately 9,000 students are enrolled in undergraduate and

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GeorgeWashingtonU ComputationalBiology

Associate Professor in Computational Biology

The Department of Biological Sciences at the George Washington University (GW) invites applications for a full time, tenure-track, nine-month appointment, faculty position in Computational Biology at the level of Associate Professor, to begin in the Fall 2024 semester.

We are looking for an investigator who is using or developing bioinformatics and computational approaches to study areas of biomedical sciences that intersect with fundamental processes in biology such as (but not limited to) evolutionary genomics, molecular epidemiology, molecular microbiology and pathogen biology, systems biology, and emerging omics. The successful

candidate will have established an externally funded research program comprising graduate and undergraduate students. Teaching duties will include a core undergraduate course, as well as an upper-division course or lab in bioinformatics related to the successful candidate's specialty. Office and dry laboratory space will be located in Bell Hall, with access to state of the art facilities for high-performance computing (https://-hpc.gwu.edu), the GW Computational Biology Institute (https://cbi.gwu.edu), the GW Genomics Core (https:/-/www.gwgenomics.org), the GW Cancer Center (https:/-/cancercenter.gwu.edu), and proximity to colleagues in the Health Sciences departments at GW. Our location in Washington DC also offers access to superior undergraduate and graduate learning opportunities, potential collaborations, and expertise through relationships with nearby hospitals, the National Institutes of Health, federal agencies, and a consortium of DC-area universities. The Biology faculty and their research interests are available here: https://biology.columbian.gwu.edu . The university and department have a strong commitment to achieving diversity among faculty and staff. We are particularly interested in receiving applications from members of underrepresented groups and strongly encourage women and persons of color to apply for these positions. The University seeks to attract an active, culturally, and academically diverse faculty of the highest caliber. Our statement on diversity and inclusion: https://biology.columbian.gwu.edu/gw-biology-dei-statement The university is an Equal Employment Opportunity/Affirmative Action employer that does not unlawfully discriminate in any of its programs or activities on the basis of race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity or expression, or on any other basis as prohibited by applicable law.

Required qualifications:A completed PhD as well as holding the rank of Associate Professor with tenure at the time of application,and research accomplishments demonstrated by an established, externally funded research program and peer-reviewed publications in high quality journals.

Application procedure:To be considered, please complete an online faculty application at https://www.gwu.jobs/-postings/105827 and upload the following documents: (i) cover letter describing interests and qualifications for the position; (ii) curriculum vitae including a full list of publications; (iii) brief research and teaching statements; (iv) three recent publications; (v) a diversity statement that highlights any past experiences and future plans related to supporting a diverse and inclusive community. Each statement (research, teaching, and diversity) should not exceed three pages. Letters of recommendation from referees will be requested at a later stage for candidates advancing to the second stage of the process. Only complete applications will be considered. Review of applications will begin on November 1, 2023, and continue until the position is filled, pending final budgetary approval. Employment offers are contingent on the satisfactory outcome of a standard background screening.

Questions: please contact Prof. Guillermo Ortí (gorti@gwu.edu), Chair of the Computational Biology Search Committee.

Arnaud Martin <arnaud@email.gwu.edu>

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HarvardU EvolutionaryBiology

Harvard University has opened a faculty search in the broad area of evolutionary biology. Details and further information can be found at https:/-/academicpositions.harvard.edu/postings/12859 Jim Mallet <j.mallet@ucl.ac.uk>

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Hungary VisitingProf Biodiversity

VISITING PROFESSORSHIP in Biodiversity, Animal Behaviour and/or Evolution UNIVERSITY OF DEBRECEN, HUNGARY

The Hungarian Academy of Sciences is offering a small number of competitive Visiting Professorships for foreign nationals. I am seeking a strong candidate to put forward within the broad fields of Biodiversity, Animal Behaviour and/or Evolution. The Professorship would fit a senior scientist wishing to spend a sabbatical in Hungary, or a mid-career scientist interested in new research collaboration(s) and/or exploring academic life in Central Europe. The Professorship would ideally start in September 2024 and terminate in December 2024.

The Hungarian Academy of Sciences offer up to 2.5 M Huf (approx. 6000 EUR/month) to cover all expenses as-

sociated with the Professorship including salary, travel, accommodation and research expenses.

The main objective of the Visiting Professorship is to produce publication(s) preferably in leading journals jointly with the prospective host, and possibly contribute a minimal teaching to ongoing postgraduate courses in conservation, ecology and evolution. The Visiting Professor will be based at University of Debrecen https://www.edu.unideb.hu/ For further information please see the instructions in English, downloadable from https://mta.hu/aktualis-palyazati-kiirasok/-mta-vendegkutatoi-program-palyazati-felhivas-113131 Application deadline: 27 October 2023

For our research please see https://-elvonalshorebirds.com/ and our pages on ResearchGate and GoogleScholar.

Prospective applicants should contact Prof Tamas Szekely, University of Bath, T.Szekely@bath.ac.uk

Tamas Szekely <bssts@bath.ac.uk>

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IowaStateU ComparativeAnimalPhysiology

Tenure-Track Faculty Position in Comparative Animal Physiology / Ecophysiology

The Department of Ecology, Evolution, and Organismal Biology (EEOB) in the College of Liberal Arts and Sciences at Iowa State University (ISU) seeks a comparative animal physiologist or ecophysiologist. This position is part of a broader hiring initiative to expand established departmental and campus-wide expertise in environmental sustainability and global change biology. The ideal candidate will have an integrative physiology research program on any animal taxon/a, and using any mixture of classic and modern tools, to study the ecology and/or evolution of animal-environment interactions. The successful candidate is expected to establish a major, externally funded research program and contribute to undergraduate and graduate education, including teaching in human and comparative physiology. This is a tenure-track 9-month position at the rank of assistant professor, with a tenure-home appointment in EEOB (100%). Candidates must hold a Ph.D. by the time of appointment.

All applications must be submitted electronically at https://isu.wd1.myworkdayjobs.com/IowaStateJobs (job # R13070, full link below*). Please be prepared to attach a letter of application, a research statement, a teaching and mentoring statement, a curriculum vitae, and the names and contact information of three referees. The position will remain open until filled. Full consideration will be given to applications received by 1 December 2023. For additional information please email physiol@iastate.edu.

EEOB is a vibrant, collegial, and growing department of 20 faculty. EEOB has a strong mentoring system for junior faculty and is committed to ISU's principles of community**. Faculty contribute to undergraduate and graduate education across multiple interdepartmental programs, and conduct innovative research in ecology, evolution, and organismal biology, using integrative approaches that bridge traditional scientific disciplines and levels of biological organization.

Iowa State University is an EO/AA employer. All qualified applicants, regardless of race, ethnicity, religion, gender, national origin, disability, or protected Veterans status, will receive full consideration for employment. Iowa State University is a comprehensive, land grant, Carnegie Doctoral/Research Extensive University with an enrollment of over 30,000 students. The university is located in Ames, IA, one of the nation's most highly rated metropolitan areas of its size (http://-www.iastate.edu/about/ames.php) and is only 35 miles north of Des Moines. ISU is committed to achieving inclusive excellence through a diverse workforce and is dedicated to supporting work-life balance through an array of flexible policies.

*Position URL: https://isu.wd1.myworkdayjobs.com/-en-US/IowaStateJobs/job/Assistant-Professor-in-Comparative-Animal-Physiology—Ecophysiology_R13070 **ISU's Principles of Community: https://www.diversity.iastate.edu/connect/-principles Tracy Heath <trayc7@gmail.com>

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JamesMadisonU EvolutionaryPlantBiology

Working Title Tenure-Track Assistant Professor, Plant Biology Position Number 1637 Posting Number F2314 Position Type Instructional Faculty - Full Time Position Status Full Time College/Division College of Science and Mathematics Department 100006 - Biology Department Pay Rate Commensurate with Experience Specify Range or Amount Is this a JMU only position? No Is this a grant-funded position? No Is this a Conflict of Interest designated position? No Position Summary Information About James Madison University Mission

We are a community committed to preparing students to be educated and enlightened citizens who lead productive and meaningful lives.

Vision

To be the national model for the engaged university: engaged with ideas and the world.

Who We Are

Located in the heart of Virginia's beautiful Shenandoah Valley, the city of Harrisonburg is approximately 120 miles from Washington, D.C. and Richmond, VA. With a population of just over 53,000, Harrisonburg is one of the most diverse communities in the Commonwealth of Virginia. JMU is a selective, public institution with a growing national reputation for offering experiences that lead to an outstanding education and inclusive environment for students, faculty and staff. The student body includes approximately 20,000 undergraduate and 1,900 graduate students, with over 1,000 full-time instructional faculty.

JMU offers thriving programs in the liberal arts, science and technology, and professional disciplines at the undergraduate, master's and doctoral levels. The university is committed to expanding diversity, fostering equity and inclusion, and supporting superlative teaching and scholarship. JMU has achieved national recognition for the high quality of its academic programs, focus on maintaining strong student/faculty interaction, and innovative faculty research.

General Information The Department of Biology at James Madison University invites applications for a 10 month tenure-track Assistant Professor position with specific expertise in Plant Biology. This is a full-time position with an anticipated start date of August 2024.

The successful candidate will join a thriving community of more than 50 biologists with broad sub-disciplinary diversity and will expand this diversity in the plant sciences through expertise in areas such as plant physiology, plant ecology, comparative and evolutionary plant biology, quantitative plant biology, or related fields. Details about existing faculty research expertise are available at: https://www.jmu.edu/biology/graduate/research-opportunities.shtml). Collaborative scholarship with other faculty members within and beyond the department is encouraged.

The department is committed to creating an equitable and inclusive environment. The successful candidate will be expected to exemplify these principles in their teaching, mentorship, scholarship, and service to the institution. Please visit our web site at http://www.jmu.edu/-biology/ for more information about the department.

The Department of Biology is housed in a modern 90,000 ft2 Bioscience building, with numerous facilities to support the scholarly and educational pursuits of faculty and students. These include the Center for Genome and Metagenome Studies (CGEMS), an automated greenhouse, herbarium, a state-of-the-art Light Microscopy and Imaging Facility, and BSL-1 and BSL-2 laboratories.

Duties and Responsibilities Expectations of the position include establishing and maintaining an externally funded research program that includes mentoring and publishing with student co-authors. The successful candidate will teach existing courses in the core curriculum for biology majors and develop upper division plant biology courses, with the option to develop graduate level courses.

Qualifications A Ph.D. in the biological sciences, with specific training in a field related to plant biology, such as plant physiology, plant ecology, comparative and evolutionary plant biology, quantitative plant biology, etc. is required. Post-doctoral experience preferred.

Conditions of Employment Employment is contingent upon the successful completion of a criminal background check.

E-Verify Notice: After accepting employment, new hires are required to complete an I-9 form and present documentation of their identity and eligibility to work in the United States. James Madison University uses the E-Verify system to confirm identity and work authorization.

Posting Detail Information Posting Date 10/12/2023 Beginning Review Date 11/12/2023 Closing Date Open Until Filled Yes Proposed Starting Date 08/25/2024

EEO Statement James Madison University is committed to creating and supporting a diverse and inclusive work and educational community that is free of all forms of discrimination. This institution does not tolerate

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JamesMadisonU OrganismalEvolutionaryBiology

Working Title Tenure-Track Assistant Professor, Organismal and Evolutionary Biology

Position Type Instructional Faculty - Full Time Position Status Full Time College/Division College of Science and Mathematics Department 100006 - Biology Department General Information The Department of Biology at James Madison University invites applications for a 10 month tenure-track Assistant Professor position with specific expertise in evolutionary and organismal biology with a focus on invertebrates. This is a full-time position with an anticipated start date of August 2024.

The successful candidate will join a thriving community of more than 50 biologists with broad subdisciplinary diversity and will expand this diversity further in evolution and organismal biology through expertise in areas such as the biology of invertebrates, evolutionary biology, population genetics, field biology, animal behavior, or related disciplines (Details about existing faculty research expertise are available at: https://www.jmu.edu/biology/graduate/research-opportunities.shtml). Collaborative scholarship with other faculty members within and beyond the department is encouraged.

The department is committed to creating an equitable and inclusive environment. The successful candidate will be expected to adopt these principles in their teaching, mentorship, scholarship, and service to the institution. Please visit our web site at http://www.jmu.edu/-biology/ for more information about the department.

Duties and Responsibilities Expectations of the position include establishing and maintaining an externally funded research program that includes mentoring and publishing with student co-authors. The successful candidate will teach in the biology undergraduate core curriculum and develop upper- division evolution and/or invertebrate organismal biology courses (with an emphasis on laboratory experiences),with the option to develop graduate level courses.

The candidate will teach undergraduate core curriculum courses and upper-division evolution and/or invertebrate organismal biology courses with an emphasis on field experiences in lab courses. Mentoring undergraduate students in discipline-specific research is expected. The candidate will have the opportunity to mentor graduate students at the master's level and the option to teach graduate-level courses. Scholarship, in a variety of forms, is supported and valued across all disciplines represented in the department. Collaborative scholarship with other faculty members within and outside the department is encouraged.

Qualifications A Ph.D. in Biology or a related field is required, with preferred training in a field related to Organismal and Evolutionary Biology or Evolutionary Ecology. Post-doctoral experience is preferred.

Conditions of Employment Employment is contingent upon the successful completion of a criminal background check.

E-Verify Notice: After accepting employment, new hires are required to complete an I-9 form and present documentation of their identity and eligibility to work in the United States. James Madison University uses the E-Verify system to confirm identity and work authorization.

Posting Detail Information Posting Date 10/12/2023 Beginning Review Date 11/12/2023 Closing Date Open Until Filled Yes Proposed Starting Date 08/25/2024 EEO Statement James Madison University is committed to creating and supporting a diverse and inclusive work and educational community that is free of all forms of discrimination. This institution does not tolerate discrimination or harassment on the basis of age, color, disability, gender identity or expression, genetic information, national origin, parental status, political affiliation, race, religion, sex, sexual orientation or veteran status.

We promote access, inclusion and diversity for all students, faculty, staff, constituents and programs, believing that these qualities are foundational components of an outstanding education in keeping with our mission. The university is interested in candidates whose experience and qualifications support an ongoing commitment to this core quality.

Anyone having questions concerning discrimination should contact the Office for Equal Opportunity: (540) 568-6991.

Reasonable Accommodation Request If you are an individual with a disability and need assistance searching or applying for jobs please contact us at (540) 568-3597 or jobs@jmu.edu. You may also visit the JMUHuman Resource Office, located at 752 Ott Street, Harrisonburg, VA 22807 and we will be happy to assist you.

Annual Security and Annual Fire Safety Report Notice of Availability - Annual Security and Fire Safety Report

The Annual Security and Fire Safety Report contains information regarding campus security and personal safety including topics such as:

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LoyolaUChicago GeneticsGenomics

Biology, Assistant Professor in Genetics/Genomics, Tenure-Track

https://www.careers.luc.edu/postings/26584 Loyola University Chicago (LUC), College of Arts and Sciences, Department of Biology seeks qualified candidates for an appointment as Assistant Professor, beginning Fall 2024. The Department of Biology has 48 full-time faculty serving 1,600 majors and is located on the university's Lakeshore Campus. For more information about the department, please visit its web site at https://-www.luc.edu/biology . Located on Chicago's vibrantly multicultural North Side, LUC is committed to creating an inclusive, responsive community of faculty, students, and staff. As an urban-based Department of Biology dedicated to mentoring a diverse student body, many of whom come from under-represented and under-served populations, we especially encourage applications from candidates from under-represented groups. We also encourage applications from scholars committed to interdisciplinarity (i.e., working with colleagues across different subfields and disciplines) and the successful pursuit of external grants.

The person hired into this faculty position will be expected to run a productive research laboratory, involve undergraduate and graduate students in their research, and compete for external research funding. This faculty member will also teach a total of two courses per semester in general genetics, genomics, and more advanced courses in their specialty area. Researchers in all areas of genetics, genomics, bioinformatics, or a related discipline are welcome to apply.

Requirements include a PhD in genetics or a related field, postdoctoral research experience, proven excellence in research, and experience teaching at the college level.

Applicants should submit a current Curriculum Vitae and a cover letter to www.careers.luc.edu. In addition, they should include separate statements addressing their research and teaching interests. The research statement should address how the applicant's research has prepared them for this position. It should also speak to their interest in interdisciplinarity and experience with grantsmanship. The teaching statement should address the applicant's teaching philosophy and past or potential contributions to mentoring a diverse student body. An additional statement of Inclusive Excellence should address how the applicant's experiences have prepared them to teach and mentor students from diverse backgrounds through research, teaching, and other channels.

Applicants should also provide the names and addresses of three individuals prepared to advise on their professional qualifications for this position. References will not be contacted immediately but might be consulted at subsequent points in the review process.

Please direct inquiries to: John Kelly Chairperson, Department of Biology Loyola University Chicago 1032 W. Sheridan Rd. Chicago, IL 60660-5761 Email: jkelly7@luc.edu

Review of applications will begin immediately and continue until the position is filled. Applications received before December 1, 2023 will receive full consideration.

Loyola University Chicago is an Equal Opportunity/Affirmative Action employer with a strong commitment to hiring for our mission and diversifying our faculty. The University seeks to increase the diversity of its professoriate, workforce, and undergraduate and graduate student populations because broad diversity - including a wide range of individuals who contribute to a robust academic environment - is critical to achieving the University's mission of excellence in education, research, educational access and services in an increasingly diverse society. Therefore, in holistically assessing the many qualifications of each applicant, we would factor favorably an individual's record of conduct that includes experience with an array of diverse perspectives, as well as a wide variety of different educational, research or other work activities. Among other qualifications, we would also factor favorably experience overcoming or

helping others overcome barriers to an academic career or degrees.

https://www.careers.luc.edu/postings/26584 "Stuart, Yoel" <ystuart@luc.edu>

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MichiganStateU QuantitativeEEB

Assistant Professor Faculty Positions in Quantitative Ecology or Evolutionary Biology, Michigan State University

The Ecology, Evolution, and Behavior (EEB) Program at Michigan State University (MSU) seeks applications for one or more tenure-system Assistant Professor faculty positions in quantitative ecology or evolutionary biology, to be appointed in the Department of Integrative Biology (IBIO), Plant Biology (PLB), or other suitable departments within the College of Natural Science. The successful applicants will have a PhD in a relevant field (with postdoctoral experience preferred), demonstrate expertise in the development and application of cutting-edge quantitative methods in ecology or evolutionary biology, and show the potential to teach in EEB's quantitative course sequence (IBIO 830-831) and/or more advanced quantitative courses. All research areas within EEB will be considered, but preference will be given to applicants that bring expertise in phylogenetic methods and/or build on MSU's strengths in behavioral ecology and social evolution and/or macroecology. Publication of open-source statistical packages is desirable.

With >100 graduate students and 75 core faculty, EEB at MSU is one of the most successful graduate programs in the university and is highly ranked nationally and internationally. The EEB core curriculum provides students with broad training encompassing experimental, field, and theoretical approaches to the study of ecology, evolutionary biology, and behavior, as well as the computational, mathematical, and statistical methods used in these fields. The program is administered through the College of Natural Science, and shares the college's and university's strategic priorities to attract talent who will contribute to the diversity and excellence of the academic community and our commitment to diversity, equity and inclusion.

Application materials should be submitted to the MSU Applicant Page (MAP) for faculty positions < https://careers.msu.edu/en-us/job/516384/assistant-professortenure-system >. Complete applications will be accepted until the positions are filled. Review of applications will begin on November 8, 2023. Questions can be addressed to the Search Committee Chair, Christopher Klausmeier, at klausme1@msu.edu.

MSU is an affirmative action, equal opportunity employer, committed to achieving excellence through a diverse workforce and an inclusive culture that encourages all people to reach their full potential. We actively encourage applications from women, persons of color, veterans, persons with disabilities and individuals who can contribute to the intellectual diversity and cultural richness at MSU. MSU is committed to providing a work environment that supports employees' work and personal life, and offers employment assistance to the spouse or partner of candidates for faculty and academic staff positions.

Christopher Klausmeier Kellogg Biological Station Departments of Plant Biology & Integrative Biology Michigan State University Hickory Corners MI 49060

Phone: (269) 671-4330 Email: klausme1@msu.edu Web: https://kl-lab.group "Klausmeier, Christopher" <klausme1@msu.edu>

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MississippiStateU Three EvolutionaryBiol

Multiple Tenure-Track positions

The Department of Biological Sciences at Mississippi State University (MSU) invites applicants for multiple 9-month, tenure-track Assistant Professor positions. Successful candidates are expected to establish an externally funded research program and contribute to the service mission of the department. Faculty are also expected to teach one course each semester in support of the undergraduate and graduate curricula (M.S. and Ph.D.). Appointment will be at the rank of Assistant Professor (tenure-track) with an anticipated start date of August 16, 2024. Minimum requirements include a Ph.D. in a relevant field and evidence of sustained scholarly productivity and teaching competence.

We further encourage applicants who are passionate teachers conducting quantitative and hypothesis-driven

research, especially those involving interdisciplinary and collaborative initiatives. Members of groups that are typically under-represented in science are strongly encouraged to apply.

We aim to fill the open positions with expertise across the following three broad areas.

Candidates whose work integrates these disciplines together or with other areas are also welcome to apply:

- Molecular, cellular, or developmental biology

For candidates studying fundamental questions in any area of molecular, cellular, or developmental biology (including evo-devo and evolutionary cell biology).

- Organismal biology

For candidates whose research addresses fundamental questions in ecology, evolution, or behavior in any taxonomic group.

- Physiology

For candidates whose research addresses fundamental questions in any area of physiology and in any taxonomic group.

The Department of Biological Sciences provides in-house research infrastructure including new imaging and high-performance computing resources. Core facilities within the department also include a BSL-2 AALAC-accredited animal care facility, a forest reserve, and common-use molecular and imaging facilities. The department also houses the Mississippi State University herbarium (MISSA), which is part of a campus-wide museums and galleries group (www.museums.msstate.edu).

The department offers B.S. (Biological Sciences, Medical Technology, and Microbiology), M.S., and Ph.D. (Biological Sciences, Computational Biology) degrees. Faculty in the department have diverse research interests in bioinformatics, cell biology, developmental biology, ecology, evolutionary biology, genetics, microbiology, and systematics, and have been recently funded by a variety of agencies including NIH, NSF (including four current CAREER awards), DOE, DARPA, USDA, USDT, and DOJ, as well as state and private organizations. Biology faculty interact with other campus research centers and institutes (www.research.msstate.edu/centers-institutes) and have ongoing collaborations involving all eight of the university's colleges.

Mississippi State University is a comprehensive Carnegie R1 "Very High Research Activity" campus and a top-100 university by research expenditure. The campus is situated in a small, cultured community boasting an exceptional standard of living (https://starkville.org). Within a short drive of Starkville are more than 120,000 acres of state and federal natural areas, with abundant opportunities for research and recreation. This includes the Sam D. Hamilton Noxubee National Wildlife Refuge (https://www.fws.gov/refuge/sam-d-hamilton-noxubee), and the Tombigbee National Forest. We are Mississippi's land-grant institution and principal research university with an enrollment of 23,000 students.

Applicants must apply online at http://-explore.msujobs.msstate.edu for position 506524 and upload the following:

- a cover letter synthesizing your experience and interest in the position.

- a CV

- a statement of research expertise and goals (2-page maximum).

- a statement of teaching interests and competency (2-page maximum).

- contact information for three references.

- reprints of up to three publications.

Your research and teaching statements should include descriptions of your action plan for mentoring undergraduate and graduate students, and your contributions and commitment to fostering a diverse, equitable and inclusive environment.

Screening of applications for all positions will begin November 03, 2023.

Equal Employment Opportunity Statement: MSU is an equal opportunity employer, and all qualified applicants will receive consideration for employment without regard to race, color, religion, ethnicity, sex (including pregnancy and gender identity), national origin, disability status, age, sexual orientation, genetic information, protected veteran

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MonashU AntarticConservation

The School of Biological Sciences At Monash University, in Melbourne, Australia, is seeking to appoint multiple new colleagues who will cultivate and demonstrate excellence in both research and teaching within the field

of Ecology. These are ongoing Teaching and Research Positions, at Level B (Lecturer) or Level C (Senior Lecturer). We welcome applicants from any area of Ecology, but particularly encourage applicants with experience and research interests in field ecology, experimental ecology, plant ecology, phytoplankton ecophysiology, or ecological genomics. We also encourage applicants with research interests that align with the objectives of Securing Antarctica's Environmental Future(SAEF), an Australian Research Council Special Research Initiative administered by Monash and part of the Australian Antarctic Program. Reporting to the Head of School, the successful candidate(s) will be expected to develop and lead a high-quality research program in any area of Ecology and to contribute positively to the scholarly activities of the School, Faculty and broader University community. The successful candidate(s) will also be expected to contribute to the teaching programme in the School of Biological Sciences including our core unit Ecology & Biodiversity, as well as relevant units related to the expertise of the successful candidate. This call is closing shortly (11 October), and position descriptions and details the application process are available here:

https://careers.pageuppeople.com/513/cw/en/job/-656234/lecturer-or-senior-lecturer-in-ecology-multiple-positions In these appointments, as in promotion and other activities at Monash, we are committed to principles of equity, inclusion and diversity. Women, Aboriginal and Torres Strait Islanders, the LGBTIQ+ community, people living with disability and those from a culturally and linguistically diverse background are strongly encouraged to apply. We have invited applicants to state relevant personal and/or professional circumstances in their statement addressing key selection criteria, to ensure that no-one is disadvantaged. Such circumstances can include periods of leave or part-time work, primary caregiving responsibilities, varied workload allocation or a range of Covid-19 related disruptions.

Professor Craig White Head, School of Biological Sciences Monash University

Pronouns: he, him, his

T: +61 3 9902 0769 E:craig.white@monash.edu evolutionaryphysiology.com cgb.org.au

Executive Assistant Jenny Spencer T: +61 3 9905 5650

E: jenny.spencer@monash.edu

Craig White <craig.white@monash.edu>

MunichU ResearchFellow EvolutionaryGenetics

Research Fellow in Evolutionary Genetics

A six-year (3 + 3) research fellow position is available in the Wolf Lab located in the Division of Evolutionary Biology at Munich University and the Max-Planck Institute for Biological Intelligence. We seek a collaborative-minded researcher with a proven publication record in evolutionary genetics and/or related fields (comparative genomics, population genetics, experimental evolution, molecular ecology). Our focus lies in understanding fundamental evolutionary processes such as adaptation and speciation. We apply a large range of methodology ranging from fieldwork to population genetic modelling, large genomic approaches to experimental evolution and functional characterization. Model organisms currently include birds (cuckoos, corvids, swallows, tits), marine mammals (pinnipeds), European hemiclonal water frog and fission yeast.

The position. The ideal candidate would have advanced bioinformatic skills, and play an active role in ongoing projects and project development in the division. As we are increasingly interested in high-throughput phenotyping, candidates with experience of AI-based approaches are especially welcome. The position comes with teaching duties of 4 hours per week (5 SWS) during the semester, contributing to both BSc and MSc courses offered by the division. With both the Graduate School for Evolution, Ecology and Systematics (EES http://ees.bio.lmu.de/) and the European Erasmus Mundus Program in Evolutionary Biology (MEME http://www.evobio.eu/) you will interact with an international and highly-motivated group of students. The position is for three years with a likely extension of three further years allowing to develop an independent research profile. The payment scale is TV-L E13 100% of the German public sector (˜ 50 - 75 kEUR gross / year depending on work experience).

Research environment. Both Munich University (LMU) and Munich Technical University (TUM) are recognized among Europe's premier academic and research institutions, consistently ranked among the top Universities worldwide. The Wolf lab is part of the life science campus at the southern rim of Munich offering excellent technical facilities and many interaction possibilities including with the Gene Centre, several Max-Planck-

Institutes and the Helmholtz Centre. The lab also maintains close ties to a growing evolutionary genetics community in Munich representing the breadth of the field (www.evogenmunich.de). With the highest concentration of supercomputing in Germany, the Leibniz Supercomputing Centre and its local partners provide access to state-of-the art computing facilities for genome-scale and large phenotype analyses. Munich is Bavaria's capital, with many traditions still alive, and is a vibrant but relaxed city offering a high quality of living. In contrast to the current funding climate in many other European and non-European countries, funding rates are relatively high in Germany, and there are several sources to seek funding for own projects including a number of national and transnational European programs.

How to apply. Applicants holding a PhD with a proven publication record are encouraged to apply. Applications including a statement of motivation including relevant expertise, a CV and the contact details of at least two references should be sent as a single .pdf file to evolution@bio.lmu.de subject term 'research fellow. The position remains open until a suitable candidate is identified. Preferred start date is January 2024 but can be negotiated depending on the applicant's situation.

Further links. Wolf Lab, Chair of Evolutionary Biology, LMU Munich: https://www.evol.bio.lmu.de/-research/j_wolf/index.html; MPI Biological Intelligence: https://www.bi.mpg.de/wolf, https://imprs-bi.mpg.de/; Evolutionary Genetics community Munich: https://-evogenmunich.de/; Leibniz Compute centre: https://-www.lrz.de/english/; Biology Campus:

http://www.campusmartinsried.de/en/336-2/ Prof. Dr. Jochen B. W. Wolf Head of Evolutionary Biology Division, LMU Munich MPI fellow, Max Planck Institute for Biological Intelligence

mail to: Jochen Wolf Division of Evolutionary Biology Faculty of Biology LMU Munich Grosshaderner Str. 2 82152 Planegg-Martinsried Germany

office phone: +49 (0)89 / 2180-74102 fax: +49 (0)89 / 2180-74104 Lab website: http://-www.evol.bio.lmu.de/research/j_wolf/index.html MPI: https://www.bi.mpg.de/wolf/de

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NatlSciFoundation SystematicsProgramDirector

The National Science Foundation (NSF) is searching for aâ€temporary program director (rotator) in the Systematics and Biodiversity Science cluster in the Division of Environmental Biology, with a flexible start date.â€Rotators typically join NSF on a short-term basis (1-3 years) and contribute to making proposal funding recommendations, influencing NSF program trajectories, interfacing with the scientific community, and relaying trends about research community directions to NSF programs.

Rotators maintain ties to their current institution during their appointment at NSF, ultimately returning with new insights about, and understanding of, the federal funding landscape after their rotation. The Rotator Program strengthens NSF's ties with the research community and provides the talent and resources that are critical to meeting NSF's mission. Serving as aâ€rotatorâ€at NSF can expand your scientific world view and enable you to engage in a leadership position within the science community in a whole new way.

NSF has an Independent Research/Development (IR/D) program that permits rotators with approved IR/D plans to maintain involvement with their professional research by providing time and travel expenses for research activities.

Qualified candidates from the full range of expertise covered by the Systematics & Biodiversity Science Program are encouraged to apply. In the short-term, SBS is particularly keen on recruiting rotators with expertise in theory/methods development, microbial and/or invertebrate systematics and taxonomy, and paleosystematics.

If you or someone you know might be interested in serving in this important role at NSF, we would like to hear from you. You can read the job posting and apply at: https://beta.nsf.gov/careers/openings/bio/bio-18-001 Please forward this announcement to anyone you think might be interested in this opportunity. The application is straightforward. Review of applications will start October 1, 2023 and continue until the position is filled. We generally have a great deal of flexibility in timing, scheduling rotations months to years in advance.

We encourage you to get in touch with these current Program Directors to learn more about the position:

Cathy Aime, maime@nsf.gov

Chris Balakrishnan, cbalakri@nsf.gov

Carolyn Ferguson, cferguso@nsf.gov

Matt Fujita, mfujita@nsf.gov

Maureen Kearney, mkearney@nsf.gov

Are you seeking more DEB info? Check out the blog < https://debblog.nsfbio.com/ >! Are you interested in being a reviewer? Fill out the survey < https://-www.surveymonkey.com/r/DEBexpertise >!

Christopher Balakrishnan, Ph.D. Program Director Division of Environmental Biology Directorate of Biological Sciences National Science Foundation T: 703.292.2331

"cbalakri@nsf.gov" <cbalakri@nsf.gov>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

NovaSoutheasternU MarineLabManager

Dear Colleagues, I am looking to fill the below position. The salary will be commensurate with experience. I would so appreciate it if you would distribute this announcement to anyone you think has the necessary experience and would enjoy such a career opportunity. Thank you!

Position: Lab Manager/Research Technician Employer: Save Our Seas Foundation Shark Research Center (https://saveourseas.com/sosf-shark-research-center/) and Guy Harvey Research Institute (https:/-/ghriresearch.org/), Nova Southeastern University, Florida. Appointment: Full-time Position. The position can start in early 2024 (start date is negotiable). Description: We seek a full-time, career track, Lab manager/Research Technician, with interests and demonstrated skills related to wet lab genetics/genomics methods. The candidate will be part of an interdisciplinary team working on conservation genomics, molecular ecology, and field ecology of elasmobranchs, migratory pelagic fishes, and deep-sea fishes.

In addition to general day-to-day lab management duties, including routine purchasing, samples organization, lab safety maintenance, and compliance with institutional research regulations, the successful candidate will support research activities by training graduate students in genetics/genomics wet lab methods and assisting postdocs with research. The individual may also contribute to/co-author research publications. Depending on experience and interests, the successful candidate may also have opportunities (although not a job requirement) to lead research projects and participate in field work.

Qualifications: Bachelor's or Master's degree with excellent organization and collaboration skills and demonstrated experience using standard molecular genetic laboratory methods, including nucleic acid extractions, PCR, electrophoresis. Experience with NGS library preparation and familiarity with statistical analysis of genetics/genomics data is a plus.

To apply: Please address any inquiries to Dr. Mahmood Shivji (mahmood@nova.edu). Please send a single file PDF by email to Dr. Mahmood Shivji, containing: 1. Cover letter describing experience and expertise relevant to qualifications, as well as short- and long-term career goals 2. CV 4. List of three professional references and contact information

Applications received before the end of 2023 will receive priority consideration. However, the position will remain open until filled.

Mahmood Shivji, Ph.D. Professor, Department of Biological Sciences Director, Guy Harvey Research Institute Director, Save Our Seas Foundation Shark Research Center Halmos College of Arts & Sciences and Guy Harvey Oceanographic Research Center

Mahmood Shivji <mahmood@nova.edu>

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OhioU DeptChair

Professor and Department Chair, Biological Sciences - Ohio University

Location: Athens, OH

Opening Date: October 10th 2023

Description: The Department of Biological Science in the college of Arts and Sciences at Ohio University seeks a Professor and Department Chair. The Chair will lead a strong and collaborative faculty committed to continuing success in undergraduate and graduate teaching, maintaining high levels of productivity in externally-funded research, and fostering academic service to the department, college, and university.

We welcome applicants with research interests in any field of Biology, but we particularly welcome those who can contribute to research in comparative and/or integrative organismal biology and who can contribute to teaching in an area of current need for the department. The successful candidate should be able to develop, articulate, and implement a clear strategic path for advancing research and teaching goals in the Department of Biology, particularly within the context of Ohio University's R1 status.

Minimum Qualifications:

A Ph.D. in Biology or a related field A record of achievement in scholarship appropriate for an appointment with tenure at the rank of Professor. Record of externally funded research. Experience mentoring graduate & undergraduate students. Experience teaching at the university level. Demonstrated administrative and/or leadership experience.

Salary will be commensurate with education and experience, while also considering internal equity.

Closing Date: 11/19/23

Applications instructions: https://-www.ohiouniversityjobs.com/postings/47812 Contact: Joey Pierce, piercej@ohio.edu, 740-593-4565

Diego F. Alvarado-Serrano Assistant Professor Biological Sciences Department Ohio University Website: http://alvarado-s.weebly.com/ "Alvarado Serrano, Diego" <alvarado.s@ohio.edu>

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SmithsonianInst BiologicalTechnician

Biological Technician Full Time, Paid, with Benefits Open until 10/20/2023.

Location: This position is based at the Smithsonian Environmental Research Center (SERC) in Edgewater, Maryland. SERC is a research center of the Smithsonian Institution, located on the western shore of Chesapeake Bay, approximately 10 miles south of Annapolis, 40 miles west of Washington D.C., and 40 miles south of Baltimore. The 2,650-acre SERC campus contains a laboratory and office complex, as well as educational and waterfront facilities.

Starting Salary: $64,957/year plus benefits

Schedule: Monday-Friday schedule, 8 hours/day, full time

Description: The Molecular Ecology lab at the Smithsonian Environmental Research Center (SERC), led by Dr. Melissa McCormick, is recruiting a full-time federal research technician. Our lab explores ecological and evolutionary questions (https://serc.si.edu/labs/molecular-ecology) involving symbiotic associations between plants and fungi, effects of anthropogenic changes on plants, and effects of invasive species on plant communities and ecosystems. Our research projects occur in field, lab, and greenhouse settings and include ecological genetics and genomics, fungal culturing, and field-based experiments. The technician will be based at SERC and will participate in collaborative projects investigating the impacts of symbioses on the functioning of plant, fungal, and bacterial communities. The technician will also be responsible for maintaining a multi-user genomics lab. SERC is a vibrant community of scientists set within a 1,027 hectare field-site, and located near the Annapolis, MD and Washington, DC metro areas.

Lab duties will include sample processing, culturing fungi and plants, routine molecular tasks (e.g., DNA extraction, PCR, DNA visualization, sequencing, genotyping), and next generation sequencing library prep. In addition, the technician will be responsible for day-to-day lab organization, maintenance, and safety under the direction of the PI, including supply inventory and ordering, maintaining lab records (hardcopy and digital), and working collaboratively with other lab members. Field and greenhouse duties will include plant popula-

tion monitoring, root and soil collection, measurement of environmental parameters, seed preparation, experimental set-up and monitoring, and data entry. Occasional travel for fieldwork and training of interns and other staff members in lab and field techniques is also expected.

Minimum qualifications include one year of specialized experience equivalent to at least the GS-07 level in the federal service or comparable pay band system. For this position specialized experience is defined as: General academic training with a minimum of a baccalaureate in Ecology, Biology, Molecular Biology, Plant Ecology or equivalent with demonstrated professional experience in completing laboratory and field tasks as they relate to molecular and field ecology, data management, bacterial and/or fungal culturing, and ecological genetics.

The Smithsonian Institution is an equal opportunity employer, committed to a policy of non-discrimination on the basis of race, national origin, sex, gender identity and expression, sexual orientation, age, religion, and disability. The SERC community recognizes the value of diversity in promoting innovative science and creative solutions, and we strongly encourage candidates from all backgrounds to apply.

Applications for this position will be accepted through the USAJobs portal from https://www.usajobs.gov/-job/753589100 . Melissa McCormick, PhD (she, her, hers) Ecologist Smithsonian Environmental Research Center 647 Contees Wharf Rd. Edgewater, MD 21037 Ph: 443-482-2433 https://serc.si.edu/labs/molecular-ecology "McCormick, Melissa" <mccormickm@si.edu>

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StockholmU SystematicEvolutionaryBotany

The Department of Ecology, Environment and Plant Sciences at Stockholm University is recruiting a tenured Associate Professor in Systematic and Evolutionary Botany. We welcome applications also from more junior people, as long as they have some teaching experience. The potential research area is very broad, with teaching most likely organism-based (e.g. undergraduate botany and field-based floristics).

Application deadline: 21 Nov 2023.

Further information and how to apply: English: https://www.su.se/english/about-the-university/-work-at-su/available-jobs?rmpage=job&rmjob=-21842&rmlang=UK Swedish: https://www.su.se/-om-universitetet/jobba-p%C3%A5-su/lediga-jobb?rmpage=job&rmjob=21841&rmlang=SE Stockholm University strives to be a workplace free from discrimination and with equal opportunities for all.

Aelys Humphreys <aelys.humphreys@su.se>

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StonyBrookU ClimateChangeBiodiversity

DQpTdG9ueSBCcm9vayBVbml2ZXJzaXR5IGludml0ZXMgYXBwbGlj
dGF0aW9uYWwgZWNvbG9naXN0DQpvciBldm9sdXRpb25hcnkgYml
IG9mIEFzc2lzdGFudCBQcm9mZXNzb3IgaW4gdGhlDQphcmVhIG9m
ZCBiaW9kaXZlcnNpdHkuIFRoaXMgaXMgYSBqb2ludCBwb3NpdGlv
YXJ0bWVudCBvZiBFY29sb2d5IGFuZCBFdm9sdXRpb24gYW5kIHRo
ZHZhbmNlZCBDb21wdXRhdGlvbmFsIFNjaWVuY2UoSUFDUykuIFF
Y2FudCB3aWxsDQplbXBsb3kgaW5ub3ZhdGl2ZSBjb21wdXRhdGlvbn
Y2UgYXBwcm9hY2hlcyB0byBhZGRyZXNzDQp0aGUgY2F1c2VzLCB
cmV2ZW50aW9uIG9mIGJpb2RpdmVyc2l0eSBsb3NzIGluIHJlbGF0aW
IGNsaW1hdGUgY3Jpc2lzLCBhbmQgbXVzdCBkaXNwbGF5IGFuIGlu
DQp0byBjb2xsYWJvcmF0ZSBicmVhZHRoIG9mIGluc
c2VhcmNoIG9uZ29pbmcgYXQNCklBQ1MuIFRoZSBjYW5kaWRhdGU
ZSBkaXZpZGVkIGJldHdlZW4gY291cnNlcyBpbiB0aGUNCkRlcGFydC
bmQgRXZvbHV0aW9uIGFuZCB0aG9zZSBzZXJ2aW5nIElBQ1MncyB
dGUgcHJvZ3JhbXMgaW4gZGF0YSBzY2llbmNlIGFuZCBjb21wdXRh
IGFwcGxpY2F0aW9ucyB3aWxsIHN0YXJ0IG9uIE9jdC4gMjMsIDIwM
cyB3aWxsDQpjb250aW51ZSB0byBiZSBhY2NlcHRlZCB1bnRpbCBOb
cmUgaW5mb3JtYXRpb24gYW5kIHRvDQphcHBseSwgcGxlYXNlIHN
aW50ZXJmb2xpby5jb20vMTI4MDU0Lg0KDQoNClBhc2NhbCBUaXR
UHJvZmVzc29yDQpwcm9ub3VuczogaGUvaGltDQpEZXBhcnRtZW50
dXRpb24gfCBTdG9ueSBCcm9vayBVbml2ZXJzaXR5DQpodHRwczov
b20NCg0KUGFzY2FsIFRpdGxlIDxwYXNjYWwudGl0bGVAc3Rvbnli
dWJzY3JpYmUvdW5zdWJzY3JpYmUgdGhlIEV2b2xEaXIgc2VuZCB
bWFzdGVyLmNhPG1haWx0bzpnb2xkaW5nQG1jbWFzdGVyLmNhP
bWFzdGVyLmNhPG1haWx0bzpnb2xkaW5nQG1jbWFzdGVyLmNhP

Stuttgart Germany Biodiversity

Dear evoldir community,

the University of Hohenheim and the Natural History Museum Stuttgart are looking for a Full Professor in the area of Biodiversity Monitoring:

https://www.naturkundemuseum-bw.de/-en/jobs/detailansicht/professur-w3-fuer-biodiversitaetsmonitoring-in-verbindung-mit-leitung-der-abteilung-biodiversitaetsmonitoring As part of the "Integrative Taxonomy" initiative of the state of Baden-Württemberg, a Center for Biodiversity and Integrative Taxonomy (KomBioTa) has been established at the University of Hohenheim (UHOH) in cooperation with the Stuttgart Museum of Natural History (SMNS). To strengthen this area of research, we are seeking a dedicated and experienced individual to establish and serve as director of the SMNS's Biodiversity Monitoring Department. The selected individual will play a key role in promoting and strengthening these research activities and initiating close collaboÂ'rations with related departments at the University of Hohenheim.

In the Univeristy of Hohenheim's Institute of Biology (part of the Faculty of Natural Sciences) and at the State Museum of Natural Sciences Stuttgart, the following position is therefore to be filled in a joint appointment procedure at the earliest possible date:

Full Professor (W3) of Biodiversity Monitoring

in connection with

Director of the Biodiversity Monitoring Department

The joint appointment by the UHOH and the SMNS will be made according to the Jülich model. Appointment to the University involves an immediate leave of absence to perform duties at SMNS, where the tasks will predominantly be carried out. The SMNS is one of the most important natural history research museums in Germany and cooperates closely with UHOH in research and academic teaching. UHOH's Institute of Biology excels in high-level basic research in organismic biology, among other areas. Together, the two institutions provide an active and strong research environment for studies in systematics, biodiversity, and evolution.

Job description

Establishment and direction of the Biodiversity Monitoring Department at the SMNS, including planning and implementing biodiversity research projects. Expansion and methodological developÂ'ment of the molecular biology laboratory at the SMNS as a central institution for bioÂ'diversity research. Introduction of new ideas for interdepartmental networking and profile enhancing for research activities at the SMNS to strengthen its position as a leading international research institution. Close collaboration with related departments at UHOH to foster synergies in research and develop new interdisciplinary approaches. Contribution to the further development of the Center for Biodiversity and Integrative Taxonomy at UHOH. Teaching: 2 contact hours per week (SWS) at UHOH in German and English to get students excited about biodiversity research.

Expected qualifications

Demonstrated teamwork skills and experience leading research teams. Proven research achievements in the field of biodiversity research, preferrably in biodiversity monitoring at a high international level. Willingness to engage in a combination of field monitoring and analysis of the collection data to gain comprehensive insights into biodiversity. Sound knowledge of ecology, statistics, and taxonomy as well as expertise in molecular biology. Habilitation or equivalent scientific achievements including proven experience in university teaching, in acquiring and managing third-party funded projects, and corresponding publications. Ability to teach in German and English on topics of biodiversity research, methods of monitoring, and aspects of organismic biology at UHOH.

The advertised position is tenured. With equal qualifications, preference will be given to candidates with disabilities. UHOH and the SMNS seek to increase the proportion of women in research and teaching, and strongly encourage qualified female scientists to apply. Please attach the following documents to your application: A statement of your research interests, a plan for establishing the Biodiversity Monitoring Department (max. 2 pages), a curriculum vitae, a documentation of academic achievements (copies), a list of publications, a list of third-party funded projects, a teaching record, information on teaching evaluations, and three key publications. Please send your electronic application (in German or English) by 15 November 2023 using the appointment portal. Questions can be sent to berufungen-natur@uni-hohenheim.de.

evoldir@posteo.de

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TexasAMU PopulationGenomics

Job Title Assistant Professor in Biology - Population Genetics/Genomics and Biostatistics Agency Texas A&M University - San Antonio Department Department of Natural Sciences Proposed Minimum Salary Commensurate Job Location San Antonio, Texas Job Type Faculty Job Description The Department of Natural Sciences at Texas A&M University-San Antonio (A&M-SA) seeks applications for a full-time tenure-track position as Assistant Professor of Biology with expertise in Population Genetics/Genomics or Quantitative Biology and experience using GIS and R beginning Fall 2024. As tenure-track members of the Biology team at a rapidly growing, aspirational university, faculty are expected to pursue external funding and actively publish in their area of expertise. Teaching responsibilities will include leading instruction and development of courses including Genetics, Biostatistics, and related areas at the undergraduate and graduate level. In addition, the candidate is expected to periodically contribute to the teaching of 1000 level courses such as Attributes of Life Systems (General Biology I) and Organismal Biology (General Biology II). As an active researcher and PI, the successful candidate will take part in graduate student mentorship and development of the growing and expanding graduate program. The current teaching load for faculty with active research programs is 3/3.

In December 2022, the University heralded aâ€new partnership with Texas A&M University Health Science Center (Texas A&M Health) and University Health (Bexar County, Texas Health System). The affiliation agreement brings three nationally recognized entities together to co-create and expand education pathways and research opportunities in high-demand health sciences disciplines, especially in a historically underserved region.â€

Responsibilities:

Teach the equivalent of 18 course credits per academic year (3/3 teaching load) in Genetics, Biostatistics, or related courses at the undergraduate and graduate level.

Equip and manage a new research laboratory.

Pursue external funding and develop a research program at A&M-SA that results in tangible products.

As part of an involved Biology Program team, provide service at the program, department, college, university, community, and profession levels.

Required Education and Experience:

Ph.D. from an accredited university in Biology or related field.

The ability to perform service and committee work at the program, department, college, university, community, and professional levels.

A commitment to mentorship of undergraduate and master's students in research

Preferred Education and Experience:

At least two years of postdoctoral experience

Experience with ArcGIS and R

Demonstrated experience with contemporary instructional technologies, distance learning platforms, and video conferencing tools.

Evidence of mentoring undergraduate and or graduate students in biology-related research

Awareness and understanding of the needs of a non-traditional, first-generation, diverse student body.

Experience with high-impact educational practices such as writing intentional courses, service or experiential learning, and undergraduate research.

Knowledge, Skills, and Abilities:

Ability to complete tasks and work cooperatively with others.

Strong self-discipline and ability to work independently.

Ability to communicate effectively with faculty, staff, and students.

Ability to interact with students from diverse backgrounds.

Application Process:

For detailed instructions on how to apply for any position on our website, please use the following link:â€

http://www.tamusa.edu/humanresources/job-opportunities/index.html Please make sure to provide the following documents:

Curriculum Vitae (CV)

Cover Letter

Overview of research experiences and current research agenda (2 pages or less)

Overview of teaching experiences and teaching philosophy (2 pages or less)

Contact information for three references that will provide letters of recommendation, if requested

Only applicants who are invited for an interview will be asked to submit three letters of recommendation to the Search Committee Chair. The letters of recommendations should be written on letterhead, be less than one year old, and must bear the writer's actual signature. The letters of recommendation can be submitted electronically as a PDF attachment with the subject heading "Biology Program-Letter of Recommendation" to the Search Committee Chair, Dr. Ashley Teufel at Ashley.Teufel@tamusa.edu.

The position is open until filled, but review of applications will begin within one month of posting.

If selected for the position, prior to issuing a letter of appointment, the official transcripts must be received directly from each degree-granting institution. We cannot accept transcripts issued

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UBritishColumbia FungalDiversity

ASSISTANT PROFESSOR IN FUNGAL DIVERSITY Department of Botany in the Faculty of Science at the University of British Columbia, Vancouver.

Position Description The Department of Botany in the Faculty of Science at the University of British Columbia in Vancouver seeks candidates for a tenure-track Assistant Professor in the area of Fungal Diversity with an expected start date of July 1, 2024. Applicants conducting innovative research in the area of fungal diversity are encouraged to apply, including those who employ cell biology, molecular biology, genomics, taxonomy, phylogenetics, or related techniques, and whose research includes the collection and use of field samples, and/or museum collections to address fundamental questions on the diversity, ecology, comparative genomics and/or evolution of fungi.

The position requires a Ph.D. degree, postdoctoral experience and an exceptional research track record. Responsibilities include establishing and conducting an internationally competitive and externally funded research program, commitment to and excellence of teaching at both the undergraduate and graduate levels, supervising graduate students, and participating in service roles contributing to the department, university and academic/scientific community. The successful applicant will have a strong commitment to equity, diversity and inclusion to create a welcoming community for all, particularly those who are historically, persistently or systemically marginalized or disadvantaged. In evaluating candidates, we may also consider evidence of leadership within the candidate's community, contributions to fostering diversity equity and inclusion, and demonstrated interest in evidence-based teaching approaches. The position includes opportunities for strong interaction with UBC's Biodiversity Research Centre, Michael Smith Laboratories (MSL), Beaty Biodiversity Museum, UBC Botanical Garden, Faculty of Land & Food Systems, and the Faculty of Forestry.

The UBC Department of Botany has 30 research faculty members and is one of the strongest botanical/plant-science-focused departments in North America. We offer a wide range of research and educational programs (https://www.botany.ubc.ca/). The Department of Botany embraces research, teaching and learning at the frontiers of plant, algal, fungal, and protist biology. This organismal diversity is studied at all biological levels, from biochemical, molecular, genomic, and cellular levels, to the evolution of species and domains of life, and the ecology of populations, communities, ecosystems through to the biosphere as a whole. The department collaborates with the Department of Zoology to teach the UBC Biology undergraduate teaching program. The department has a strong tradition of enhanced educational experiences that engage students in research and the scholarship of teaching and learning. Research in the department is supported by the UBC Herbarium, microscopy infrastructure in the Bioimaging Facility (BIF), the Sequencing Consortium, and the Centre for Plant Growth. Botany Faculty occupy research labs located primarily in two adjacent modern research facilities, the Biosciences Building and the Biodiversity Research Centre.

Applicants should submit via Academic Jobs Online: https://academicjobsonline.org/ajo/jobs/26297 1. Cover letter (up to 2 pages) that summarizes: - Your research vision and accomplishments.

- How your expertise, scholarship, and planned research will integrate with the Department of Botany.

- How you have displayed leadership through existing or proposed research, teaching service, community engagement, outreach contributions to equity diversity and inclusion, or other relevant activities.

2. Curriculum vitae, including a list of publications 3. Statement (up to 2 pages) describing your current and proposed research program.

4. Statement (up to 1 page) of teaching philosophy/interests and accomplishments, addressing how you would teach core undergraduate courses in the UBC Biology program.

5. A diversity statement (1 page) describing (1) your past experience and future plans regarding working with a diverse student body, and contributing to a culture of equity and inclusion, and (2) your lived background experience (if comfortable discussing this - not including this will not count against your application).

6. Up to three representative publications in PDF format.

7. Names and contact information for three referees.

Applications must be addressed to Botany Head Shawn Mansfield and submitted via Academic Jobs Online https://academicjobsonline.org/ajo/jobs/26297. The closing date for applications is December 15, 2023 at 5pm (Pacific Standard Time).

Additional Information: The Vancouver campus of UBC is situated on traditional, ancestral,

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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

UCentralFlorida GenomicsBioinformatics

The Faculty Cluster Initiative (FCI) at the University of Central Florida (UCF) is recruiting one 9-month tenured associate professor or professor who will serve as the lead for the Genomics and Bioinformatics Cluster (GBC), (https://www.ucf.edu/research/genomics-bioinformatics/). The GBC is looking for a proven leader to foster the continued expansion of research programs in genomics and bioinformatics that are enabled by next-generation sequencing technologies and that address one or more areas among molecular evolution, biodiversity, microbiome research (environmental and plant/animal health), biological model systems, infectious diseases, translational applications for cancer, computational biology, systems biology, machine learning, and data mining. Strong candidates in other areas of genomics will also be considered. This position has an anticipated start date of August 8, 2024.

An ideal candidate will have a strong background in genomics and bioinformatics, as well as computational approaches used to analyze large genomic datasets. The candidate should have demonstrable leadership experience, preferably with multidisciplinary teams, a strong research publication record, and demonstrated independent and interdisciplinary research funding.

The Genomics and Bioinformatics Cluster lead can join any of three tenure home departments ??? The Burnett School of Biomedical Sciences (College of Medicine), Biology (College of Sciences), or Computer Science (College of Engineering and Computer Science). Joint or secondary joint appointments among these departments is possible as appropriate to qualifications and interest. The cluster lead will be expected to develop a research program that strengthens their tenure home department and the cluster.

UCF is one of the nation's largest universities with a diverse student body of approximately 68,000 students, offering 240 degree programs across multiple campuses and UCF connect centers in the Orlando area. UCF has grown substantially in size, quality, diversity, and reputation in its first 50 years. UCF is an economic engine, attracting and supporting industries vital to the region's future while providing students with real-world experiences that help them succeed after graduation.

Minimum Qualifications:

A Ph.D., M.D./Ph.D., or equivalent degree from an accredited institution in an area appropriate to this position.

To be eligible for appointment as a tenured associate professor or professor upon hire, the selected candidate must have a demonstrated record of teaching, research, service, and leadership commensurate with a tenured faculty appointment in the applicable tenure home. Evidence of such a record could be demonstrated by holding the rank of tenured associate professor or professor at the candidate???s current institution.

Also required is a strong and consistent scholarly and/or funding record from the NIH, NSF, or other equivalent agencies in genomics and bioinformatics, and demonstrated leadership in interdisciplinary research and/or education programs, potentially evidenced by currently holding, or previously having held, a leadership position at the candidate???s current or previous academic institution.

Preferred Qualifications:

In addition to the leadership and research track record noted above, an ideal candidate will also have proficient teaching skills and demonstrated effective commu-

nication skills with both graduate and undergraduate students, whether in large or small audiences.

Preference will be given to candidates at the rank of professor, but experienced associate professors will also be considered.

Additional Application Materials Required:

UCF requires all applications and supporting documents be submitted electronically through the Human Resources employment opportunities website, https://-www.ucf.edu/jobs/. In addition to the online application, candidates should upload a cover letter, a current curriculum vitae, and a list with contact information for three (3) professional references. In the cover letter, candidates should address their background in genomics and bioinformatics, their leadership experience, and identify the anticipated department(s) for their potential tenure home.

NOTE: Please have all documents ready when applying so they can be simultaneously uploaded. Once the online submission process is finalized, the system does not allow applicants to submit additional documents later.

Questions regarding this search should be directed to: Shaojie Zhang, Search Committee Chair, at Shaojie.Zhang@ucf.edu .

Job Close Date:

Open until filled.

Michelle Gaither <Michelle.Gaither@ucf.edu>

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UCLouvain TerrestrialConservation

UCLouvain seeks to recruit a full-time (assistant) professor in Terrestrial Ecology and Biodiversity Conservation (tenure track)

Main campus: Louvain-la-Neuve, Belgium

You will teach mainly in the field of biology. You will teach in the various study cycles managed by the faculty. You will teach basic courses in ecology and biology of organisms in the Bachelor of Biology program and advanced courses from the Master program in Biology of Organisms and Ecology in the field of terrestrial ecology and conservation of biodiversity, with a specific emphasis on the practical aspects of biodiversity conservation in highly disturbed environments. You will also be expected to supervise Master's theses.

You will develop your research activities, including the animation of research programs, in the field of terrestrial ecology and biodiversity conservation. This implies that part of the research is carried out in the field, whether by means of observational or experimental approaches. You will develop an in-depth naturalist knowledge of (semi-natural) ecosystems in Belgium. The integration into research of quantitative analysis methods (e.g. -omics approaches, ecological modelling, analysis of ecological data) is also desired. Research will necessarily have to focus on study systems allowing the involvement of stakeholders outside the university ("science-policy gap bridging") and directly related to the conservation of biodiversity in temperate Western Europe (including in Belgium). You will be responsible for the supervision of PhD theses.

You have a PhD in Biology (or in a domain that can be considered as equivalent). You have extended experience abroad or at least outside your home institution. You have a proven track record in university teaching, with evidence where possible by formal evaluations. Your scientific experience is demonstrated by publications of international standing. You are comfortable working as part of a team of academics and integrate research results into your teaching. You are capable of conducting high-level scientific research, from obtaining funding to team management. You are creative, open to pedagogical innovation and multidisciplinary.You can communicate in French and English. If this is not the case, you undertake to acquire a command of these two languages within two years of taking up your position. Knowledge of other languages is an asset.

Application deadline: Monday, November 13th at noon (UTC+1 Time Zone)

Starting date: September 1st 2024

More information and online application form on https://jobs.uclouvain.be/PersonnelAcademique/-job/Academic-position-in-Terrestrial-Ecology-and-Biodiversity-Conservation/977916801/ Renate Wesselingh <renate.wesselingh@uclouvain.be>

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UHawaii PlantGenomics HerbariumDirector

https://www.schooljobs.com/careers/hawaiiedu/jobs/-4222578/assistant-professor-plant-genomics-herbarium-director The School of Life Sciences, in the College of Natural Sciences at the University of Hawaiâat MÄnoa, welcomes applications for the position of Assistant Professor with a research program focused on Plant Genomics and to serve as Herbarium Director.

The University of Hawaiâat MÄnoa (UHM) is a Native Hawaiian place of learning and a Carnegie Research 1 University with a strong emphasis on research and undergraduate and graduate education. Our vision is to be locally and globally recognized as a premier student-centered and community-serving university. UHM adheres to fair and inclusive recruitment and hiring procedures, and is a campus committed to diversity, equity, and inclusion excellence. For more information on the MÄnoa Strategic Plan and additional information about Manoa's Strategic Vision as a Native Hawaiian place of learning, visit https://manoa.hawaii.edu/strategicplan/. For more information on the school, please visit https:/-/manoa.hawaii.edu/lifesciences/ . Duties and Responsibilities:

The School of Life Sciences at the University of Hawaiâat Manoa seeks a tenure-track Assistant Professor in Plant Genomics who will also serve as the Director of the UHM Joseph F. Rock Herbarium. We are searching for a highly creative and interactive scholar who works at the genome scale to address questions about the ecology and evolution of plants. We welcome candidates who use emerging sequencing and informatics tools to work on non-model systems, especially organisms native to, or naturalized in, Hawai'i and the Pacific. We particularly encourage applications from researchers investigating population connectivity, speciation, adaptation, species interactions, phylogenetics, systematics, or conservation using genome or exome data, and/or gene regulatory mechanisms. Experience or interest in working with herbarium, archeological or other types of preserved specimens is welcomed. The successful candidate will join an integrative Life Sciences program with broad interests in evolution, ecology, conservation, organismal biology, and cell and molecular biology, offering undergraduate and graduate degree programs in Biology, Botany, Microbiology, Marine Biology, Cell and Molecular Biology, and Zoology.

The duties of this position include establishing a vigorous extramurally funded research program in plant genomics, scholarly publications in leading academic journals in areas of expertise, and providing mentoring for postdoctoral scholars, and undergraduate and graduate students. The successful candidate will also contribute to the School of Life Sciences by developing and teaching courses in plant genomics for undergraduate and graduate students in the Life Sciences, serving on university committees and performing related tasks as assigned, and collaborating with scientists in the School of Life Sciences and the University of HawaiÊ≫i community.

Teaching duties will include plant systematics, and other courses as assigned, including developing novel courses in topics related to expertise including -omics based approaches to plant biology, and implementing computational methods and tools in course settings to help strengthen the curricula. Duties also include supervising student independent study/research activities; training and mentoring undergraduate and graduate students; serving on departmental, college, and university committees; rendering service to the professional and lay community relevant to the individual's academic specialty; participating in curriculum development activities such as developing course materials and special instructional methods; participating in graduate committees; developing an externally funded research program leading to publication in leading scholarly journals; performing related tasks as assigned.

Additional Duties:

Successful candidates will assume directorship of the Joseph F. Rock Herbarium (HAW), which serves as the official university repository for botanical plant, algal, fungal, and lichen accessions. The herbarium comprises approximately 50,000 dried plant specimens, with particular emphasis on vascular plants of Hawaiâand the Pacific. This work has been supported with student assistance, and we anticipate that curation duties will comprise approximately 10% of effort.

Minimum Qualifications:

1. A Ph.D. in an area of the Life Sciences or other related disciplines from an accredited institution 2. Evidence of research productivity through publication of scholarly materials in the field of plant genomics

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UKansas AnthropologicalGenomics

The Anthropological Genetics research group at the University of Kansas is a dynamic research team that focuses on the analysis of genetic material from ancient and contemporary humans, non-humans, and sediments in order to address questions concerning human population history throughout ancient Beringia and the Americas. These projects include studies of population movements and admixture, human behaviors, and environmental reconstructions. We are seeking applications for an Assistant Researcher to join our group and participate in data generation, and to help with laboratory trainings, record keeping, and maintenance. This staff position is a full-time, limited term appointment currently funded for three years. The Assistant Researcher will report to the Laboratory Coordinator of the KU Anthropological Genetics Research Facilities (https://-kuanthgen.org), and will work closely with individual PIs as appropriate for specific research projects.

The Assistant Researcher's responsibilities include, but are not limited to, running predesigned research experiments and designing new research experiments involving ancient human, non-human, and sedimentary genetic material, processing DNA extracts into next-generation sequencing libraries, targeted enrichment of next-generation sequencing libraries, and re-designing protocols as needed based on new developments in the field. Commensurate to interest and ability, the Assistant Researcher will analyze data and contribute to manuscript preparation following best practices, with publication attribution proportionate to the level of contribution. When needed, the Assistant Researcher will train incoming undergraduate and graduate students on laboratory methods and cleanroom standard operating procedures in paleogenomics. As appropriate, they will participate in typical genetic laboratory equipment and reagent maintenance, as well as be responsible for detailed databases for all involved research projects, in collaboration with the Laboratory Coordinator.

We seek candidates with a bachelor's degree (or higher) in a biological science related field and at least two years of laboratory experience in genetics, genomics, or molecular biology. Preferred candidates will have a master's degree in a biological science related field, prior experience in an ancient DNA (paleogenomic) research facility, experience or formal training in population genetic bioinformatic methods, and prior experience with protocol development.

Application Review begins Friday, November 10th and will continue until a pool of qualified applicants is obtained.

Earliest start date: January 15th, 2024. Salary: $50,000 plus fringe.

Apply: https://employment.ku.edu/jobs/staff/-assistant-researcher/26432br "Tackney, Justin" <justin.tackney@ku.edu>

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UKansas Genomics

Assistant Professor in Genomics (Three positions) Department of Molecular Biosciences University of Kansas

POSITION OVERVIEW

The University of Kansas seeks THREE Assistant Professors in the area of Genomics, Evolutionary or Quantitative Genomics, or Genome Biology in the Department of Molecular Biosciences to begin 08/18/2024. These positions will be tenure-track, full-time, academic year appointments.

We are seeking applications from researchers working in any area of genome biology in any system, who use experimental, quantitative and/or computational approaches to address fundamental biological questions, and who will build on current strengths in the department. With these hires we seek to enhance both genome science research and genomics education and training at KU.

The Department of Molecular Biosciences (www.molecularbiosciences.ku.edu) provides a highly interactive, multi-disciplinary research environment that includes successful researchers in genetics and genomics, evolutionary biology/genetics, computational biology, cell and developmental biology, neurobiology, microbiology, biochemistry, and cancer biology. In addition, the University of Kansas has many excellent core research facilities that facilitate and enhance departmental research (www.research.ku.edu/ku-core-research-labs).

This cluster hire is made possible in part by the recent Genomics Research Rising award through the KU Office of Research to the KU Center for Genomics, a multidisciplinary center coalescing the strengths in genomics

across several groups at KU (Molecular Biosciences, Ecology and Evolutionary Biology, Anthropology, Lifespan Institute, Engineering). The successful candidate will be integrated into the Center and benefit from the collegial, collaborative research environment the Center provides.

THE UNIVERSITY OF KANSAS

The University of Kansas is the state's flagship university, an R-1 institution and one of just 66 invited members of the prestigious Association of American Universities (AAU). Our university consistently earns high rankings for academics and recognition as a premier research university (engaging in $275 million of externally funded research annually).

KU has 21 programs ranked in the U.S. News & World Report top 25 among public universities, including #1 rankings for graduate programs in public administration and special education. KU has 65 ranked graduate programs and is ranked 24th in best value among public institutions in 2022. KU offers 5,000 courses, 400 degree and certificate programs, and more than 200 fields of study. The University values global engagement with more than 150 programs of international study and cooperative research and offers more than 130 study abroad programs. Student enrollment for the Lawrence-Edwards was 23,958 representing all 50 states and 112 countries.

At KU we make it our mission to educate leaders, build healthy communities, and make discoveries that change the world. We aspire to be an exceptional learning community that lifts each other and advances society. KU's strategic plan Jayhawks Rising is focused on objectives to accomplish this vision through three mission-based priorities of student success, healthy and vibrant communities, research, and discovery.

In a continuing effort to enrich its academic environment and provide equal educational and employment opportunities, the university actively encourages applications from members of underrepresented groups in higher education. KU's vision is to be an exceptional learning community that lifts each other and advances society. The Jayhawks Rising Strategic Plan was developed around three Institutional Priorities: creating a clear and ambitious direction to fulfill our mission to educate leaders, build healthy communities, and make discoveries that change the world. Additional information is available at (jayhawksrising.ku.edu).

KU's research residential campus is in the center of a vibrant and culturally-rich community - a quintessential college town. Visitors, students and new employees from outside the area enjoy discovering the many wonders of Lawrence, including a thriving downtown, diverse local and regional events, area lakes, vibrant arts and music scenes, and an indelible history. Home to nearly 95,000 people, Lawrence is located 45 minutes west of Kansas City and 30 minutes east of Topeka, the state capital. Along with the music, arts, culture and sports experiences offered at KU and in Lawrence, the short drive to Kansas City provides quick access to historic jazz clubs, museums, world-class music and theatre venues, and professional sports teams.

REQUIRED QUALIFICATIONS

1) PhD in genetics, genomics, or a related discipline 2) Postdoctoral experience 3) Demonstrate excellence in genomics-related research, evidenced by

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UKentucky ArthropodEvolution

Assistant Professor of Arthropod Molecular Biology Department of Entomology, University of Kentucky

Position: Assistant Professor of Arthropod Molecular Biology, twelve-month, tenure-track appointment with an anticipated distribution of effort of research (70%), instruction (25%) and service (5%).

Description: The Department of Entomology at the University of Kentucky invites applicants for a tenure-track faculty position in arthropod molecular biology. We are seeking candidates who use molecular tools to address fundamental questions in biochemistry, pathology, immunology, microbiome interactions, developmental biology, and/or toxicology. We are particularly interested in candidates who use a combination of modern and classical approaches in their work, such as genome editing, RNAi, transgenics, functional genomics (multi-omics, protein structural modeling, etc.), high-throughput analyses, functional characterization of genes, single cell sequencing, electrophysiology, and cell culture. The successful applicant will develop an internationally recognized and extramurally funded research program that incorporates MS and PhD students and undergraduate researchers. Enthusiasm for interdisciplinary collaboration is particularly encouraged. The anticipated

teaching load will be two courses per year in the interdisciplinary Agricultural and Medical Biotechnology (AMBT) program and/or the Entomology program. Relevant courses could include molecular genetics, insect toxicology, molecular biology techniques, and/or a course in the candidate's area of expertise. Our new colleague is expected to contribute to institutional service and the missions of the Martin-Gatton College of Agriculture, Food and Environment.

Qualifications: The successful applicant must have a Ph.D. in Entomology, Biology, or a related field with experience in molecular biology research. Experience seeking external funding and teaching at the college-level, and excellent oral and written communication skills are preferred qualifications.

Salary and Benefits: Salary is commensurate with training and experience; an overview of benefits is available at www.uky.edu/HR/benefits . Application Procedure: Applications must be submitted electronically via the University of Kentucky website here: https://-/ukjobs.uky.edu/postings/493800. Applicants should submit the following: 1) a CV; 2) an application cover letter describing background and expertise specifically related to this position at the University of Kentucky; 3) a statement of research interests (2-3 pages); 4) a statement of teaching interests (2-3 pages) (research and teaching statements should be combined and uploaded under Specific Request 1); 5) a statement of diversity indicating how your previous experiences have prepared you to contribute to an inclusive institutional culture (1 page; upload under Specific Request 2); and 6) up to five selected reprints (upload under Specific Request 3)

Please also include the names and addresses of four individuals who may be contacted for letters of reference when prompted in the application process.

Application Deadline: December 31, 2023 or until a suitable candidate is identified

Date Position is Available: July 1, 2024 or as mutually agreed upon

Contact: Dr. Julian Dupuis (julian.dupuis@uky.edu) Chair, Search Committee.

The Martin-Gatton College of Agriculture, Food and Environment (MG-CAFE) is fulfilling the land-grant promise of educational excellence, civic leadership, transformational research, and shared knowledge serving the common good. We serve the people of the Commonwealth and across the world through education, outreach, service, and research by finding solutions to improve lives today and create a sustainable future. We integrate teaching, research, and extension in our work. We recruit, retain, and graduate students who are competent, responsible, and workforce ready. For more than 130 years, MG-CAFE has provided research results to the community. From traditional labs and research farms to high-tech diagnostic and research centers, we offer science-based, practical solutions that affect the everyday lives of Kentuckians and people around the world. Our Cooperative Extension programs are engaged in Kentucky's 120 counties, identifying and addressing needs not only in agriculture and natural resources, but also 4-H and youth development, family and consumer sciences, as well as community & economic development. We create a welcoming and inclusive environment that allows our faculty, staff, and students to reach their highest potential. We recognize people with diverse backgrounds and experiences are essential to decision making, problem solving, and innovation each and every day.

The University of Kentucky is a university with approximately 22,000 undergraduate and 8,500 graduate students. UK is Kentucky's

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UMassachusetts Lowell EvolutionaryBiology

University of Massachusetts, Lowell is hiring a Tenure Track Assistant Professor. The position description is intentionally very broad and we would certainly welcome applications from biologists who have research programs that ask ecological questions in an evolutionary framework or evolutionary biologists with an organismal, biodiversity, or environmental focus. The ad states that review of applications will begin on November 1 but applications received after that date will be considered until the position is filled.

The Department of Biological Sciences at the University of Massachusetts, Lowell invites applications for a full-time, tenure-track faculty position in Ecology, Organismal, or Environmental Biology at the Assistant Professor level starting September 2024. We seek a colleague who takes a functional and/or comparative approach to study ecological and/or environmental questions.

The area of specialization is open, but we are interested in applicants with expertise in behavioral, evolutionary, functional, molecular, physiological, or population ecology. Individuals with field-based research are encouraged to apply. The successful candidate is expected to establish a vigorous, collaborative, externally funded research program that engages trainees at all levels and incorporates their research into the classroom to fulfill our teaching and student engagement mission. Teaching responsibilities will include an undergraduate course and a graduate-level course (MS, PhD students) in the candidate's area of specialization. The University of Massachusetts Lowell is a research university that has advanced in national rankings and offers a competitive salary and benefits package. The Department of Biological Sciences is one of the largest academic units on campus with diverse research interests and an exemplary record of extramural funding. The department offers a B.S. in Biology with concentrations in General Biology, Pre-Health, Biotechnology, Bioinformatics, and Ecology, Evolutionary & Organismal Biology (EEOB), a M.S. in Biological Science, a Ph.D. in Applied Biology and participates in the interdisciplinary Ph.D. in Biomedical Engineering and Biotechnology.

The University has strong ties to the community of Lowell, a mid-sized city with a diverse population that is located in the heart of the rich academic environment as well as the life sciences supercluster of the Northeast region of Massachusetts, which is home to more than 100 life science companies. Together with its proximity to the Boston/Cambridge biotechnology and biomedical hub, as well as numerous other universities, the Harvard Museum of Comparative Zoology, and Woods Hole Oceanographic Institution, there are ample opportunities for scientific interaction, exchange, and collaboration. Lowell is located 25miles northwest of Boston and within one hour of mountains and beaches. Our university was recently recognized as a Minority Serving Institution for its support of Asian American and Pacific Islander students, and it has also been awarded recognition for its support of first-generation college students.

Information about the Department is available at https://www.uml.edu/Sciences/biology/ Minimum Qualifications (Required):

Earned doctorate and postdoctoral experience (required at the time of application) The ability to collaborate effectively with diverse student and faculty groups

Demonstrated teaching and mentoring abilities at the undergraduate and/or graduate levels Potential to establish a sustainable,externally funded research program Demonstrated publication record in scholarly journals

Excellent communication and interpersonal skills

Instructions to Applicants:

Apply and view the details here:

https://careers.pageuppeople.com/822/lowell/en-us/-job/521066/assistant-professor-biological-sciences Documents:

Cover letter Curriculum Vitae Statement of Research: Statement indicating current research foci and plans for research program development over the next 5-7 years. Please include a description of how you will involve trainees at all levels in your research. Statement of Teaching and Service: A description of prior teaching experience, teaching philosophy, and future teaching interests. Please include a description of how you incorporate your research, and the research of others, into classroom activities. Statement of Contributions to Advancing Diversity, Equity, and Inclusion: A statement describing your experience and approach to mentoring and/or working with students from traditionally underrepresented groups (especially Asian/Asian American/Pacific Islander, Latinx, and Black/African American)as well as first-generation students. Please address how you plan to advance equity and inclusion within your lab,

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UNebraska Lincoln GenesGenomesEvolution

ASSISTANT PROFESSOR in Genes, Genomes and Evolutionâ€ UNIVERSITY OF NEBRASKA-LINCOLNâ€â€ SCHOOL OF BIOLOGICAL SCIENCESâ€â€

The School of Biological Sciences (SBS), in the College of Arts and Sciences (CAS), at the University of Nebraska-Lincoln (UNL) invites applications for an academic-year, tenure-track, assistant professor position in Genes, Genomes, and Evolution.â€The successful candidate will work broadly to elucidate molecular or cellular mechanisms that link genes and traits using an integrative approach in any plant, animal, or microbial system in an evolutionary context. This position will

play a key role in furthering SBS goals to integrate across biological levels to understand how organisms develop, function, interact with, and adapt to their environment. This is the second of what is expected to be a cluster of at least two faculty in this area.

The successful candidate will demonstrate a strong record of original research as evidenced by peer-reviewed publications. They will be expected to contribute to the university's mission to promote diversity and inclusive excellence, establish a nationally recognized and extramurally funded research program, be dedicated to education at the undergraduate and graduate levels, and be committed to inclusive teaching.

A Ph.D. in biology or a related discipline; research experience in genes, genomes, and evolution, as evidenced by peer-reviewed publications; and postdoctoral or equivalent training are required. Preference will be given to candidates with a demonstrated commitment to diversity, equity, and inclusion (assessed with rubric based onâ€https://ofew.berkeley.edu/recruitment/-contributions-diversity/rubric-assessing-candidate-contributions-diversity-equity); the ability to build upon and expand existing research inâ€SBSâ€(https:/-/biosci.unl.edu); a commitment to teaching at the undergrad and graduate levels; and the likelihood of success at obtaining intramural grants, judged by the research statement.

The successful candidate will receive dedicated lab and office space and a competitive start-up package and will have the opportunity to collaborate with an accomplished group of biologists inâ€SBS, the Nebraska Center for Virology, and other units across theâ€UNLâ€campus and the University of Nebraska system.â€SBSâ€offers a collaborative, interdisciplinary, and welcoming place to work. As articulated in our strategic plans,â€SBS (https://biosci.unl.edu/-diversity),â€CAS (https://cas.unl.edu/strategic-plan), andâ€UNL (https://diversity.unl.edu/)â€are committed to enhancing diversity, inclusion, and equity in all aspects of our mission from undergraduate and graduate students to faculty and staff.

The city of Lincoln, Nebraska provides an outstanding quality of life that includes a vibrant downtown with a lively music and art scene, a collection of over 120 parks, and 130 miles of bike trails, plus a low cost of living. Learn more about the city of Lincoln atâ€https://www.unl.edu/lincoln/about-lincoln and https://diversity.unl.edu/creating-connections-on-and-off-campus . Review of applications will begin on October 20, 2023, and will continue until the position is filled or the search is closed. Applicants should go toâ€https://employment.unl.edu, requisition F_230143. Complete the Faculty Academic/Administrative Information form, and upload the following documents: (1) a cover letter highlighting the candidate's interest in the position and their qualifications; (2) a Curriculum Vitae; (3) a document with research, teaching, and diversity statements; and (4) the names and contact information for three references. The two-page research statement should describe research interests and future plans. The one-page teaching statement should summarize instructional strategies, experience, and interests. The one-page diversity statement should describe past experiences that advance diversity, equity, and inclusion, as well as future plans. Combine the three statements into a single document for upload. Questions regarding the application process may be sent to biologysearch@unl.edu.

UNLâ€seeks to achieve a working and learning environment that is open to all people. Dignity and respect for all in theâ€UNLâ€community are the

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UPennsylvania AI in EvolutionaryBiology

Tenure-track Assistant Professor of Machine Learning in Biology

Location: Philadelphia, PA

Open Date: Sep 28, 2023

Deadline:

The Department of Biology at the University of Pennsylvania invites applications for a tenure-track Assistant Professor position in the development and application of machine learning (broadly defined) to answer biological questions. The search is open with respect to biological subfield, with areas of interest including: prediction of protein structure and function; genomics and genotype-to-phenotype mapping; image analysis; systems biology and data integration; biological prediction at any scale. Individuals focusing on solely computational approaches as well as those with combined theoretical and experimental-based inquiry will be considered.

The Department of Biology in Penn's School of Arts & Sciences is a collaborative and interactive department community of faculty and students with broad research interests and disciplines that span molecular and cellular biology, ecology, evolutionary biology, and mathematical and computational biology (https://www.bio.upenn.edu/). Our department is housed within the https://www.sas.upenn.edu/, which is comprised of 28 academic departments, the https://www.college.upenn.edu/, the https://www.sas.upenn.edu/graduate/, and the https://www.lps.upenn.edu/. Interdisciplinary research and collaboration are supported by the https://www.hr.upenn.edu/PennHR/careers-at-penn/penn's-schools-and-centers as well as the proximity of resources on our contiguous https://facilities.upenn.edu/services/landscape in Philadelphia, Pennsylvania. We promote and encourage curiosity, intellectual engagement, and discovery among all our students and faculty. University, School, and Departmental resources that support our mission include but are not limited to: the https://faculty.upenn.edu/ and https://research.upenn.edu/, https://wellness.upenn.edu/, the https://ctl.upenn.edu/, the https://curf.upenn.edu/, and https://www.hr.upenn.edu/ . Review of applications will begin on November 6, 2023 and continue until the position has been filled. The appointment is expected to begin on July 1, 2024. A Ph.D. or equivalent degree is expected at the start of the appointment, as well as direct evidence of self-motivation and a consistent record of strong research using machine learning to study biological systems and questions. The Department also expects candidates to present a strong capacity for teaching at both the graduate and undergraduate levels; mentoring and support of a diverse student body; and the ability to direct graduate and undergraduate research. Candidates should submit a cover letter, curriculum vitae, a research statement (3 pages maximum) including 2-3 representative publications, a teaching statement that highlights your experiences and teaching philosophy (3 pages maximum), a diversity statement that describes your experience and roles in DEI initiatives/events (3 pages maximum), and three letters of recommendation to http://apply.interfolio.com/133260 .

We seek candidates who share our strong commitment to research, teaching and mentoring, and to a scholarly community shaped by values of inclusive excellence. The School of Arts and Sciences at the University of Pennsylvania is committed to cultivating and sustaining a community of students, scholars, researchers, and staff that reflects the diversity of our world. We nurture working and learning environments that are affirming, equitable, and inclusive. As a community, we are committed to thoughtful discussions and dynamic interactions as we strive for an environment where everyone is supported and valued. Please see our School's Inclusion and Antiracism Initiatives to learn more about our active priorities: https://www.sas.upenn.edu/2020-inclusion-and-anti-racism-initiatives . Qualifications

Application Instructions

To apply, visit https://apptrkr.com/4657864 The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania is an equal opportunity and affirmative action employer. Candidates are considered for employment without regard to race, color, sex, sexual orientation, gender identity, religion,

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URochester EvolutionaryGenetics

The Department of Biology at the University of Rochester invites applications for a tenure-track Assistant Professor position in evolutionary genetics and genomics. We are searching for applicants whose research program uses computational approaches to answer important theoretical or applied questions in evolutionary biology and who would complement our existing strengths in genetics and genomics. We are especially interested in those who envision making advances in phylogenetics, population genetics, molecular evolution, comparative genomics or population biology.

The successful candidate is expected to establish an externally funded research program and contribute to undergraduate and graduate teaching and research mentoring. Applicants should have a PhD awarded no later than January 2024 and academic credentials commensurate with a candidate's current position. The University of Rochester offers strong institutional support, including state of the art computing infrastructure, and a rich environment for interactions beyond our department, including the Goergen Institute for Data Science and the University of Rochester Medical Center.

Complete applications include: a cover letter, curriculum vitae, a statement of research interests and plans, a statement of teaching qualifications and interests, three letters of reference, pdfs of three publications, and a statement on advancing equity and fostering an inclusive and diverse community in academia. The diversity and inclusion statement may include your values, past experience, future plans, and/or leadership in relationship to teaching, research, or service. Instructions for supplying the reference letters are provided on the application website: https://www.rochester.edu/faculty-recruiting/positions/show/16322 Applicant screening will start November 1 and will continue until candidates for interviews have been chosen. The anticipated start date of the position is July 2024.

Salary: $100,000 - $115,000

The referenced pay range represents the full base range of pay for this job. Individual salaries will be determined within the job's salary range and established based on market data, experience and expertise of the individual, and internal equity considerations.

The University of Rochester, an Equal Opportunity Employer, has a strong commitment to diversity and actively encourages applications from candidates from groups underrepresented in higher education.

EOE Minorities/Females/Protected Veterans/Disabled

fayjustin@gmail.com

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

USouthAlabama DeptChairBiology

University of South Alabama College of Arts and Sciences, Department of Biology

The Department of Biology invites applications for the position of Department Chair at the rank of Professor. The starting date for this twelve-month, tenure track position is August 15, 2024.

Qualifications include 1) a Ph.D. in Biology or a closely related discipline, 2) a distinguished and active record of scholarly publications and excellence in research and teaching, 3) effective leadership and interpersonal skills, and 4) relevant administrative experience. The chair will also be expected to provide vision, creative leadership, and advance the department's research and educational missions. Applicants must have at least one year in the respective rank at a comparable institution.

The Department of Biology at the University of South Alabama is committed to providing high-quality education in the life sciences through building a diverse, supportive, and collaborative intellectual community of faculty and students. Through hands-on mentorship, teaching, and research, our mission is to create an educational environment that enables our undergraduate and graduate students to excel. Our students develop practical skills that prepare them for exceptional career opportunities, including professional and graduate school programs, industry, and non-governmental organizations to serve their communities. The Chair is the chief administrative officer of the Department and is expected to foster a culture of excellence in research, teaching, mentorship, and service through:

Developing and implementing a compelling vision for the future of the department in collaboration with the faculty and the Dean of the College of Arts and Sciences that promotes the professional development of faculty, staff, and students while also fostering a diverse and inclusive working environment within the department. Providing leadership in planning and supervising programs relevant to the department's mission, manage departmental budgets and other financial matters, and assist in generating extramural support for department activities. Communicating effectively with faculty, staff, students, university administrators and stakeholders, including appropriately seeking and applying feedback. Maintaining an active research program. Teach undergraduate or graduate courses in the area of specialization, including during summer. A rapidly growing institution, the University of South Alabama, the Flagship of the Gulf Coast, enrolls over 14,000 graduate and undergraduate students and is committed to being a Research-Intensive University. The campus is located in a thriving metropolitan area of over 400,000 people on the scenic northern coast of the Gulf of Mexico. Mobile sits at the intersection of the Mobile-Tensaw Delta and the Gulf of Mexico and is one of the most biodiverse locations in the country. The city of Mobile has a burgeoning downtown with restaurants and breweries, fantastic weather, a regional airport, access to incredible beaches, and is the originator of Mardi Gras.

The Department of Biology has fifteen full-time faculty members and multiple part-time instructors. Information on faculty research interests and teaching can be found on https://www.southalabama.edu/colleges/artsandsci/biology/. The department offers BS and MS degrees in Biology, and fulfills a critical role within the University of South Alabama by offering numerous classes for non-science and science majors.

Salary and start-up packages are competitive based on qualifications.

Candidates should send, in a single PDF file, a cover letter (1-2 pp.), curriculum vitae, research statement (2 pp), diversity statement (1 p.), teaching philosophy statement (1-2 pp.), a statement of administrative vision that includes a description of relevant experience (1-2 p.), and the names and contact information of three references to Julie Herman (jherman@southalabama.edu). Questions regarding the position should be sent to Dr. Sean Powers, Chair, Biology Chair Search Committee, spowers@southalabama.edu.

Review of applications will begin on November 7, 2023, and continue until the position is filled.

The University of South Alabama is an EO/AA employer and does not discriminate on the basis of race, color, national origin, sex, pregnancy, sexual orientation, gender identity, gender expression, religion, age, genetic information, disability, protected veteran status or any other applicable legally protected basis.

Jason Strickland, Ph.D. (He/Him/His) Interim Assistant Chair and Assistant Professor, Department of Biology Adjunct Assistant Professor, Department of Microbiology and Immunology University of South Alabama Earth and Life Sciences Building Room 222 (ELSB 222) 5871 USA Dr. N Mobile, AL 36688 Office: 251-460-7310

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UTasmania PlantEvolutionaryGenetics

Lecturer in Plant Ecological Genetics, University of Tasmania

Work type: Full time, continuing

Location: Hobart, Australia

Contribute in the Discipline of Biological Sciences, School of Natural Sciences (https://www.utas.edu.au/-natural-science) , in the College of Sciences and Engineering (https://universitytasmania.sharepoint.com/-sites/CoSE)

The Opportunity

The Discipline of Biological Sciences is seeking to appoint a Plant Ecological Geneticist with a strong record of undertaking field-based teaching and research, relative to opportunity. The new appointee will align with the strategic teaching and research directions of the Discipline and be a complementary fit for the staffing profile. We seek a Plant Ecological Geneticist with experience in conducting globally relevant field-based research projects that are quantitatively grounded and may complement different areas, for example, plant adaptation, evolution, molecular ecology, landscape community genomics, bioinformatics, conservation biology, or restoration ecology.

Key Accountabilities:

Make an effective and sustained contribution to the University in achieving its strategic objectives and fulfilling its operational responsibilities.

Undertake high-quality research of national and increasingly of international standing, secure external competitive and other funding, publish research findings and contribute to the successful supervision of research higher degree students to meet and regularly exceed the expectations commensurate for Level B.

Undertake scholarly undergraduate (and if relevant postgraduate) coursework teaching of a high quality.

Increasingly contribute to and provide academic leadership, within the Discipline, School, and College, particularly in fostering outstanding research and learning and teaching.

Contribute to the development and maintenance of productive and effective links inside the University and locally and nationally within relevant domains, including industry and/or the wider community.Â'

Your Application

To be successful in the role, your application will need to demonstrate:

A PhD in a relevant field.

Experience and demonstrated achievement in University level teaching and learning.

A strong record (relative to opportunity) in, and continuing commitment to, research that has achieved national and growing international recognition and made notable contributions in the area of Plant Ecological Genetics, demonstrated by a record of high-quality publications.

Ability to conduct field-based research and expertise in quantitative interrogation of data.

Experience in building or working in collaborative and potentially multi-disciplinary research teams.

A record (relative to opportunity) in securing external, nationally competitive grants and other funding.

A record of contributions to successful research higher degree supervision.

Ability to develop and maintain strong professional relationships with UTas colleagues and contribute to the collegiality of the Discipline.

We are an inclusive workplace committed to 'working from the strength that diversity brings reflected in our Statement of Values. We are dedicated to attracting, retaining, and developing our people and are committed to inclusive principles. We celebrate the range of diverse assets that gender identity, ethnicity, sexual orientation, disability, age and life course bring. Applications are encouraged from all sectors of the community. Tell us how we can make this job work for you.

Remuneration

Appointment to this role will be at Academic Level B and will have a total remuneration package of up to $147,083 comprising base salary within the range of $108,285 to $125,712 plus 17% superannuation. Relocation support considered for the successful applicant.

Considering a move to Tasmania to take up this opportunity?

Offering a breath of fresh air, our island State's wild landscapes, unique towns and fascinating history have something for everyone. Tasmania has crafted a unique brand of creativity and adventure; case in point: world-famous MONA and the exceptional mountain bike tracks of Derby. Our world-famous food and wine provide an abundance of fresh seafood, family-run wineries and distilleries, and culinary experiences celebrating farm-fresh produce.

How to Apply

To apply online, please provide the following supporting documentation:

Resume

Cover letter outlining your suitability and motivation for the role

Your responses to the success criteria from the Position Description below

For further information about this position, please contact Mark Hovenden, Chair of Selection Panel, Mark.Hovenden@utas.edu.au or +61 3 6226 7874.

Please visit https://www.utas.edu.au/jobs/applying for our guide to applying and details on the recruitment process.

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UTennessee Knoxville EvolutionOfAnimalCommunication

Research Specialist - Animal Behavior - Ecology and Evolutionary Biology

Description

The Derryberry and Tanner labs are seeking a highly motivated individual to join our laboratories as a Research Specialist and Laboratory Manager. This key team member will manage field- and lab-based behavioral research experiments and assist both PIs with mentoring undergraduate students. Work schedule requires weekend availability, and early morning and late evening hours depending on the month of the year. Both labs study the evolution of animal communication, the Derryberry Lab in birds and the Tanner lab in frogs and some acoustically communicating insects. Our laboratories are stimulating and collaborative environments that are part of a growing Animal Behavior Cluster at the University of Tennessee. There will be excellent opportunities to learn behavioral, statistical, and field techniques.

Apply online here: https://ut.taleo.net/careersection/ut_system/jobdetail.ftl?job=230000025B Duties and responsibilities will include but are not limited to:

1. Perform behavioral experiments to support ongoing research projects.

2. Analyze, plot, and present experimental results.

3. Maintain live animal populations for research experiments.

4. Supervise, train, make work assignments, and mentor undergraduate student researchers.

5. Organize lab inventory, supplies, and orders.

6. Maintain compliance with proper safety protocols and record- keeping requirements.

Techniques used in the lab include:

1. Behavioral ecology: Performing behavioral experiments on free-living and captive frogs and birds, including operant conditioning, female choice tests, recording, and sound analyses.

2. Field ecology: Collecting frogs from the wild for laboratory- based experiments; catching and banding free-living birds.

3. Animal care: Following IACUC approved protocols and SOPs in daily animal care, including maintaining and cleaning animal enclosures, ensure a safe and secure habitat, and monitor health of animals.

4. General molecular biology techniques (e.g., DNA/RNA extraction, PCR, gel electrophoresis).

Training will be provided for the necessary laboratory techniques.

Qualifications

1. Bachelor's degree in Ecology & Evolution, Animal Behavior, or a related field required (Masters preferred).

2. Experience in animal behavior research is preferred.

3. Problem-solving, strong attention to detail, and high levels of organization are required.

4. Excellent verbal and written communication skills required.

5. Strong work ethic with the ability to work independently and as part of a team is required.

6. Proficiency with computer software (e.g., Word, Excel, Powerpoint, Photoshop, Illustrator) is required.

Please submit a cover letter, resume/CV, and contact information for three references as a single document when applying.

Job Research Technical Primary Location US-Tennessee-knoxville Organization Ecology & Evolutionary Biology Schedule Full-time Campus/Institute Knoxville Job Posting Oct 2, 2023, 1:43:06 PM

Jessie C. Tanner, PhD (she/her) Assistant Professor Department of Ecology & Evolutionary Biology Department of Psychology University of Tennessee, Knoxville

"Tanner, Jessie" <tanner@utk.edu>

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

UTennessee VertebrateBiologyEvolution

UTennessee.VertebrateBiologyEvolution

Location Knoxville, TN Open Date Sep 27, 2023

Description The Department of Ecology & Evolutionary Biology seeks a tenure-track faculty member at the Assistant Professor level in the field of human or non-human vertebrate biology. We seek a broadly trainedvertebrate-biologist who uses integrative approaches to morphology, function, or physiology in evolutionary, ecological, or behavioral contexts. Applicants should complement the integrative nature of the department, bridging theoretical, mechanistic, and applied research. We welcome applicants who can leverage the wealth of expertise in related fields across the UT system, and who can collaborate with the diverse ecology and evolution focused researchers in the department, at the National Institute for Mathematical and Biological Synthesis [NIMBioS], and the nearby Oak Ridge National Laboratory. Applicants could also integrate into their research program our nearby field resources (including Great Smoky Mountains National Park, national forests, and natural areas), extensive biodiversity collections, and advanced computational and sequencing facilities. Teaching and service will potentially support the new Global Health concentration in the Biological Sciences degree.The candidate who fills this position will be expected to engage in high-impact scholarly research, to seek external funding to support this research, and to mentor departmental graduate students. This faculty member will also be expected to provide excellent teaching in graduate and undergraduate classes,and to engage in institutional and professional service. We are committed to excellence in teaching, particularly using inquiry-based pedagogies or experiential learning. Expectations for a successful candidate include evidence of effective teaching strategies. Qualifications The successful candidate for this position must have a Ph.D. in biology or a related field by the start of employment. Required qualifications include a successful record of publishing in peer-reviewed journals, along with evidence of the ability to develop an innovative research program supported by external funding. The candidate should also have a willingness to engage in collaboration within and outside of the department and have the ability to contribute in meaningful ways to the diversity and intercultural goals of the

University. Postdoctoral work and the expertise to teach comparative vertebrate evolution and human anatomy are preferred.UTK is a land-grant university and values engaged forms of research/scholarship/creative activity, teaching and service, and considers evidence of these commitments in the records of applicants.

Application Instructions Review of applications will begin on 16 Oct 2023, and will continue until the position is filled. Individuals interested in applying for this position should submit electronically at http://-apply.interfolio.com/132022, including a letter of application, research statement, teaching statement, curriculum vita, and list of three to five references who can address the applicant???s capabilities with complete addresses, phone numbers, and email addresses. In addition to addressing their qualifications for the position in their application, candidates may describe how they would help promote students??? access to and inclusion in their teaching and research/scholarship/creative activities. Questions can be directed to Ben Fitzpatrick, search committee chair, at benfitz@utk.edu.

Equal Employment Opportunity Statement

All qualified applicants will receive equal consideration for employment and admission without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability, genetic information, veteran status, and parental status, or any other characteristic protected by federal or state law. In accordance with the requirements of Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990, the University of Tennessee affirmatively states that it does not discriminate on the basis of race, sex, or disability in its education programs and activities, and this policy extends to employment by the university. Requests for accommodations of a disability should be directed to the Office of Equity & Diversity, 1840 Melrose Avenue Knoxville, Tennessee 37996-3560 oroed@utk.eduor(865)974-2498. Inquiries and charges of violation of Title VI (race, color and national origin), Title IX (sex), Section 504 (disability), the ADA (disability), the Age Discrimination in Employment Act (age), sexual orientation, or veteran status should be directed to the Office of Investigation & Resolution 216 Business Incubator Building 2450 EJ.Chapman Drive Knoxville, Tennessee

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UTulsa EvolutionaryAnimalPhysiology

Tenure-Track Position in Animal Physiology

The Department of Biological Science at The University of Tulsa invites applications for a tenure-track Professor position at the Assistant or Associate level with demonstrated expertise in Animal Physiology. We seek a creative and interactive individual working on fundamental problems that include a laboratory component. We anticipate a Fall 2024 start date for this position.

The successful applicant is expected to have a Ph.D. and post-doctoral experience, and to establish a vigorous extramurally funded research program involving both undergraduate and graduate students. Teaching responsibilities will include a course in Vertebrate Physiology, and developing appropriate upper-level/graduate courses in their area of expertise.

Interested applicants should submit a cover letter, curriculum vitae, statements of research and teaching interests, three representative publications, and names and complete contact information for three references through the TU application portal: https://-universitytulsa.peopleadmin.com/postings/8246 For full consideration applications should be received by 14 November 2023.

The University of Tulsa

The Department of Biological Science (https://-healthsciences.utulsa.edu/biological-science/) at The University of Tulsa (www.utulsa.edu) offers BS, MS, and PhD degrees in Biology.

The city of Tulsa, located in the rolling Osage Hills of northeastern Oklahoma, is one of the most livable and affordable cities in the United States with a lively arts and cultural scene and a metropolitan population of just over 1 million.

The University of Tulsa is an Equal Opportunity Employer and is especially interested in candidates who can contribute to the diversity and excellence of the academic community through their research, teaching and/or service.

Ronald M. Bonett, Ph.D. Associate Dean of Research Oxley College of Health and Natural Sciences Professor of Biological Science University of Tulsa 800 S. Tucker

Drive Tulsa, OK 74104

Email: ron-bonett@utulsa.edu Office: (918) 631-3328 https://ronbonett.weebly.com *Ronald M. Bonett, Ph.D.* Associate Dean of Research Oxley College of Health and Natural Sciences Professor of Biological Science University of Tulsa 800 S. Tucker Drive Tulsa, OK 74104

Email: ron-bonett@utulsa.edu Office: (918) 631-3328

Ronald Bonett <ron-bonett@utulsa.edu>

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

UVirginia EvolutionInfectiousDisease

Candidates studying microbiology and infectious disease from evolutionary or ecological angles are encouraged to apply.

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The University of Virginia invites applications for multiple tenure-track Assistant Professor appointments in Microbiology and/or Infectious Disease in the highly interdisciplinary Department of Biology. We seek applicants whose research addresses fundamental problems in microbiology, infectious agents broadly defined, and/or host-microbial interactions. The successful applicants will complement or broaden existing strengths within the Department and are expected to establish a rigorous, independent, and externally funded research program and to teach at undergraduate and graduate levels. We seek to recruit faculty from diverse backgrounds who value diversity and are passionate about having a positive impact on society and the world. The Department of Biology and the University of Virginia provide resources to facilitate a wide range of research programs including those requiring modern animal care, greenhouse, and aquatic husbandry facilities. Research programs also benefit from access to the Universityï¿½ï¿½s state-of-the art computing, genomics, metabolomics, and imaging facilities. The Department maintains a variety of field sites including Mountain Lake Biological Station. Close ties with other Departments in the College of Arts and Sciences, as well as the Schools of Medicine, Data Science, Engineering, and the Biocomplexity, Brain, and Environmental Institutes broaden the intellectual community of Department members.

Qualifications Applicants must have a Ph.D., or equivalent degree, and post-doctoral research experience in Microbiology or Infectious Disease or a relevant field. A successful applicant will also have demonstrable research accomplishments and plans of outstanding quality and significance, as well as a commitment to excellence in teaching and mentoring. Enthusiasm for participating in a diverse, collegial, interdisciplinary, and collaborative environment is strongly preferred.

Application Instructions Required materials: 1. Cover letter of interest that includes a summary of your research plans, your teaching interests and experience, and how you have contributed to a departmental and university culture of diversity and inclusion and/or working with diverse populations (ï¿½ï¿½ 2 pp) 2. Curriculum vitae 3. Research statement that describes your vision for your research program at the university (ï¿½ï¿½ 3 pp) 4. Statement on teaching and scientific mentoring detailing your experience and goals (ï¿½ï¿½ 2 pp) 5. Contact information for three references

To apply to this position please follow http://-apply.interfolio.com/130419 For questions regarding the position, please contact search chair Jennifer Guler at idmicrosearch@virginia.edu

“Bergland, Alan Olav (aob2x)” <aob2x@virginia.edu>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

UVirginia InfectiousDiseaseEvolution

The University of Virginia is seeking innovative and collaborative applicants for a joint tenure-track faculty position at the rank of assistant professor as part of the Contagion Science Program expected to begin August 24, 2024. The program is designed to foster pan-university leadership and excellence in contagion science research and education. See full description of the program at: https://contagion-science.virginia.edu. We seek applicants whose research and teaching advance knowledge of the behavior, mechanism, and characteristics of contagious phenomena, spanning from the origins, evolution, and epidemiology of infectious diseases to the social, behavioral, economic, and/or health consequences of contagions.

The successful candidate will hold a joint appointment in the Department of Biology and a social science de-
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partment in the College that fits their intellectual interests (including but not limited to the Department of Economics, Political Science, Sociology, and Anthropology). The successful candidate is expected to establish a rigorous, independent, and externally funded research program that trains and mentors students, to contribute to instruction at undergraduate and graduate levels, and to perform service for the institution and professional organizations. Desired skills include but are not limited to computational modeling, social network analysis, information diffusion modeling, and simulations. We seek to recruit faculty from diverse backgrounds who are passionate about cross-disciplinary education and training for diverse audiences.

This position is part of a prestigious strategic research initiative funded by the University and organized through the Biocomplexity Institute which represents a broad and comprehensive partnership of the College of Arts & Sciences (A&S), and the schools of Engineering and Applied Science (SEAS), Data Science (SDS), and Medicine (SOM). Multiple tenure-track faculty will be hired as part of this initiative. This position provides an opportunity to collaborate with other Contagion Science faculty and draws upon the resources of the Biocomplexity Institute, including access to research staff and deep expertise in computational approaches for studying complex systems, from bioinformatics to high-performance computing, and agent-based modeling.

Qualifications Applicants must have a PhD (or equivalent international degree) or be enrolled in and have received their degree by the start date. A successful applicant will also have demonstrated originality and productivity in research, commitment to undergraduate and graduate teaching and research mentoring.

Application Instructions To apply for this position please follow http://apply.interfolio.com/130429 and attach the required documents:

Review of applications will begin on November 1, 2023. Only complete applications will be considered and review of completed applications will continue until the position is filled.

Required materials for complete application: 1. Cover letter of interest that includes a summary of your research plans, your teaching interests and experience, your preferred departmental affiliations, and demonstrated past experience relevant to advancing the UniversityÂÂs ambition to cultivate the most vibrant community in higher education in order to prepare students to be leaders in a diverse and globally connected world. (ÂÃ 2 pp) 2. Curriculum vitae ÂC most recent version 3. Research statement describing your vision for your research program at the University (ÂÃ 3 pp) 4. Statement of teaching and scientific mentoring philosophies detailing your experience and goals (ÂÃ 2 pp) 5. Three letters of recommendation from individuals familiar with your work and potential.

The University will perform background checks on all new hires prior to employment.

For questions regarding the position, please contact search chair Michael Timko, Lewis and Clark Professor of Biology at mpt9g@virginia.edu

The University of Virginia is annually ranked as one of the premier public institutions in the United States. The University is located in Charlottesville, VA a picturesque and vibrant small city perennially ranked as one of the best places to live in the U.S. More information about town, the school, faculty benefits and other topics can be found at https://provost.virginia.edu/subsite/-faculty-affairs/new-faculty-candidate-resources . The University of Virginia, including the UVA Health System which represents the UVA Medical Center, Schools of Medicine and Nursing, UVA Physicians Group and the Claude Moore Health Sciences Library, are fundamentally committed to the diversity of our faculty and staff. We

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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

Vetmeduni Vienna ResAssoc DrosophilaEvolution

The Institute of Population Genetics is looking for a Research Associate. The future postholder will work in a team with other RAs maintaining large-scale Drosophila experimental evolution studies. The working language at the Institute is English.

Start date 1.11.2024, but we have some flexibility if required.

Salary: about 2200 euro /month

The position could be extended for a period of up to 4 years.

Applications received by the end of September 2023 for full consideration.

We will, however, keep the search open until a suitable candidate has been selected.

Applications should be sent to: christian.schloetterer@vetmeduni.ac.at

Christian Schlötterer Institut für Populationsgenetik Vetmeduni Vienna Veterinärplatz 1 1210 Wien Austria/Europe

phone: +43-1-25077-4300 fax: +43-1-25077-4390 http://www.vetmeduni.ac.at/en/population-genetics/ Vienna Graduate School of Population Genetics http://www.popgen-vienna.at Christian Schlötterer <christian.schloetterer@vetmeduni.ac.at>

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Vienna AdminCoordinator SFB PolygenicAdaptation

Dear colleagues,

here is an interesting opportunity for research management within the evolVienna community - please forward to interested candidates:

Open position: Administrative coordinator, special research program (SFB) on polygenic adaptation (Univ. of Veterinary Medicine, Vienna)

We are searching for a communicative and independent person, who has very strong management skills, and enjoys working in an international environment. The SFB (https://www.vetmeduni.ac.at/sfb-polygenic-adaptation) is a joint research program with 8 faculties from 4 participating institutions: Vetmeduni, Gregor Mendel Institute, ISTA, and University of Vienna. The coordinator is responsible for the internal and external communications of the SFB. The coordinator position is based at the Institute of Population Genetics at Vetmeduni (https://www.vetmeduni.ac.at/-en/population-genetics) and embedded in the evolutionary research community in Vienna (http://-www.evolvienna.at).

Requirements:

- Fluent in German and English.

- PhD in one of the following disciplines: Life sciences, statistics, informatics; previous experience with population genetics is a bonus.

Duties:

- Coordinate recruitment of postdocs and PhD students.

- Provide administrative support to the SFB faculty and early-stage researchers including postdocs and PhD students (visa and residence permits, local registration in Vienna and registration in PhD programs, housing, relocation support, health related issues), in particular for non-German speakers.

- Plan and coordinate the training activities, workshops and meetings including bimonthly meetings, weekly journal clubs, and the visits of invited seminar speakers and scientific advisory board (SAB).

- Organize social events for the members of the SFB.

- Manage interaction with the administration of the participating institutions.

- Maintain and update the SFB website.

- Provide help in the financial management of the SFB, writing annual reports, and securing further funding.

- Manage the international networking with other institutions operating similar training programs.

- Organizing the outreach program (to the general public and to the scientific community) and public relations activities including press releases about publications of the SFB.

What we offer:

The successful applicant will receive a postdoctoral salary (gross euro 4,351.90 including health benefits, contribution to pension funds etc.) according to the FWF rules (https://www.fwf.ac.at/en/research-funding/personnel-costs/#c6541).

The position is available from 01.05.2024. The initial contract is for one year, but can be extended up to 8 years.

How to apply:

Your application should contain a one-page cover letter, a one-page motivation letter, CV, and the names and contact details of 3 references, in one single PDF file. Applications should be sent to Neda Barghi: neda.barghi@vetmeduni.ac.at

The deadline for application is 15.11.2023 and the search continues until the position is filled.

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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Vienna Austria TwoResTec DrosophilaEvolution

Two full-time Research Associate (40 hours/week) positions are available in the group of Neda Barghi at the Institute of Population Genetics, Vetmeduni, Vienna. The main focus of the project is to study the genomic and phenotypic changes of Drosophila experimental populations as they will be selected to have larger body size. We will combine genomic, phenotypic and gene expression data.

Research Associate 1 (RA1) - The technician will be responsible for maintenance of Drosophila stocks, and performing the selection experiments and high-throughput phenotyping assays. S/he will assist in developing a new protocol for performing selection experiment in Drosophila populations.

Research Associate 2 (RA2) - The technicians will be mainly responsible for molecular biology tasks including RNA and DNA extraction, NGS library preparation, sample preparation for metabolite measurement. S/he will assist other group members in maintenance of Drosophila populations.

We are looking for a reliable, highly organized and motivated candidates with good communication skills. S/He should have Bachelor's degree in Biology, Genetics, Molecular Biology, or a related field, and be willing to acquire new skills. Excellent written and spoken English skills is a must. For RA1 position, experience in Drosophila system is a plus. For RA2 position, experience in molecular biology is required, and skills in NGS library preparation is highly valued.

The positions will start in January 2024 and are limited for 1-year with the possibility of extension up to 4 years depending on successful evaluation.

The gross salary is 2,252 ???/month.

In case of interest, please send your CV, including the required/desired skills for this position, to Neda Barghi (neda.barghi@vetmeduni.ac.at). You can visit the lab webpage here: https://www.vetmeduni.ac.at/en/-population-genetics/research/research-groups/barghi-lab/ Deadline for applications is November 15, 2023, but all applications will be considered immediately after receipt of the application documents.

Neda Barghi, Ph.D. Group leader Institute of Population Genetics, Vetmeduni Vienna, Austria

https://www.vetmeduni.ac.at/en/population-genetics/ *My working hours might be different from yours, please do not feel obliged to reply outside of your normal work schedule.*

"barghi.neda@gmail.com" <barghi.neda@gmail.com>

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WesleyanU EvoDevo

The Biology Department at Wesleyan University seeks a tenure-track professor (open rank) in evolutionary developmental biology and broadly related areas. The successful candidate will develop an active research program bringing integrative approaches to address fundamental problems in biology. We welcome applicants whose research draws on diverse empirical, conceptual, and modeling approaches in their chosen study organism. With an anticipated start date of July 1, 2024, we seek a colleague to complement and contribute to our research and teaching strengths in cell and developmental biology, genomics and systems biology, neuroscience and behavior, ecology, and evolutionary biology.

We are searching for an individual who can contribute to our undergraduate and graduate programs and is committed to liberal arts education in a culturally diverse campus community. Teaching duties will include courses in our undergraduate and graduate curriculum, with a normal load of one full-credit course per semester, plus complementary seminars. Additional duties include academic advising, mentoring students and participating in faculty governance at the departmental and university levels. Applicants are required to have a Ph.D. in Biology and postdoctoral experience. All tenure-track faculty in the Biology department are expected to demonstrate excellence in teaching and research, and to be prepared to use their dedicated laboratory space in our new science building to launch an independent research program funded by extramural grants. Wes-

leyan University is a selective liberal-arts university with Ph.D. programs in Natural Sciences and Mathematics and in Ethnomusicology. The departmental and multidisciplinary programs provide a stimulating, interactive research environment supported by a central vivarium, research greenhouse, and core facilities that include shared instrumentation for cell and molecular biology, a high-performance computing facility, and confocal and electron microscopes. Wesleyan University, located in Middletown, Connecticut, is an Affirmative Action/Equal Opportunity Employer and does not discriminate on the basis of race, color, religion, sex, national origin, disability, protected veteran status, or other legally protected status. We welcome applications from women and historically underrepresented minority groups. Inquiries regarding Title IX, Section 504 or any other non-discrimination policies should be directed to Vice President for Equity and Inclusion, Title IX and ADA/504 Coordinator, Debbie Colucci ().

Please submit the following: cover letter, curriculum vitae, reprints, a statement of research accomplishments and plans, a statement of teaching interests, teaching evaluations (if available), a diversity/equity/inclusion statement (describing how you will embrace the college's commitment to fostering an inclusive community, as well as your experience working with individuals from historically marginalized or underserved groups), and email addresses for three recommenders to: http://careers.wesleyan.edu/postings/10102. Review of applications will begin December 15, 2023 and will include all applications received by December 31. For application-related questions, please email the Biology Department's Administrative Assistant, Shana Sperry (ssperry@wesleyan.edu).

SHANA SPERRY Administrative Assistant Wesleyan University | Biology 52 Lawn Ave | Middletown, CT 06459

Shana Sperry <ssperry@wesleyan.edu>

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WoodsHoleOceanographicInst MarineVirologist

Note - not explicitly seeking an evolutionary biologist, but viral evolution / diversity are areas of interest. - CT

The Biology Department at the Woods Hole Oceanographic Institution (WHOI) invites candidates to apply to the open full-time, Tenure Track Scientist position in Marine Virology on our scientific staff*. We seek to hire one scientist at the pre-tenure level.

ï¿½We are seeking candidates with potential to complement or diversify our existing strengths in biology and biological oceanography. We invite expansive interpretations of our research, teaching, and scholarly pursuits and welcome interdisciplinary approaches. While we invite applications from researchers with interest in any area related to the biology of marine systems, we are particularly interested in applicants who conduct research in marine virology. Area of focus may include (but not limited to) viral diversity, viral ecology, virus-host interactions and evolution, and viral impact on animal health and/or biogeochemistry.ï¿½ï¿½ Candidates employing experimental, observational, and/or modeling approaches are welcome.

Full details here:

https://careers-whoi.icims.com/jobs/2173/tenure-track-scientist—biology/job ctepolt@whoi.edu

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Other

AGA2024LogoContest DeadlineNov11

Science artists! Can you design a simple, evocative logo for President Beth Shapiro's AGA Symposium?

Genomic Technologies & the Future of Conservation

6-9 October 2024 at Granlibakken Resort, Tahoe, California

The theme across two days of talks will be to explore DNA and other biotechnologies, including cloning and de-extinction, for biodiversity conservation.

Submit your sketches and ideas here: https://forms.gle/-Qepiz31FR8xXsQLb6 Rough drafts are fine, we'll work with you to develop the final image.

$150 for the chosen design

Deadline November 11, 2023

Anjanette Baker

AGA2024 Symposium Coordinator

Anjanette Baker <theaga@theaga.org>

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AGAAwards DeadlineDec13

The 2024 AGA Awards rounds are open!

The American Genetic Association grants Evolutionary, Ecological, and Conservation Genomics (EECG) Research Awards to graduate and post-doctoral researchers who are at a critical point in their research, where additional funds would allow them to conclude their research project and prepare it for publication. Awards are up to $6,000.

The AGA grants Special Events Awards to its members for support of workshops and other events that advance the AGA mission to encourage the study of comparative genetics and genomics, in order to document, conserve, and manage organismal diversity. We are particularly committed to providing funds that support graduate student and early-career researcher participation. Awards are $1,000-$10,000.

Application materials and more information are available on the AGA website https://www.theaga.org/

Deadline for receipt of application materials: Midnight EST, Wednesday, 13 December 2023

Carlos Driscoll <theaga@theaga.org> Managing Editor

Anjanette Baker <theaga@theaga.org>

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Alternatives to BluePippin

Hi!

We are currently looking into purchasing a machine for automated size selection for NGS applications.

We know about the BluePippin but are wondering if there are any alternatives to the BluePippin out there that we are not aware of.

Thus, we would be thankful to receive suggestions for the most used machines for DNA size selection for genomics.

Thanks a lot for your help in advance! Best wishes, Cornelya

Cornelya Klutsch, PhD Researcher Norwegian Institute of Bioeconomy Research Department of Ecosystems in the Barents Region Svanhovd Research Station NO-9925 Svanvik, Finnmark Email: cornelya.klutsch@nibio.no Phone: +47902 85 906

Cornelya Klutsch <cornelya.klutsch@nibio.no>

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AnnalsBotany Issue PlantConservation

Dear Colleagues,

We have the pleasure of organizing a Special Issue for Annals of Botany onâ€Genetic Approaches to Plant Conservation and Restorationâ€for the XX International Botanical Congress to be held July 21-27, 2024 in Madrid.â€

We are looking for primary research, reviews, viewpoints, and research-in-context articles with a forward-looking emphasis onâ€Conservation Genetics in the 21stCentury

The Special Issue will focus on three key areas:â€

1. Theâ€study of threatened species in situ, to understand genetic threats to population viability in nature, and identify where increased gene flow and connectivity might be beneficial.â€

2. Theâ€genetic study of ex situ practicesâ€that aim to safeguard species germplasm for the future and support further actions in situ.â€

3. Theâ€genetic assessment of reintroductions and restorations, to determine best practices for creating new populations equivalent to historic or remnant populations.

However, we are open to all types of research that fall into the broad topic of Conservation Genetics.

If you are interested in contributing to this Annals of Botany Special Issue, please submit (i) a title, (ii) -250-word abstract, and (iii) which key area you think your work would best fit by May 1, 2024.â€

Please feel free to contact us if you would like a copy of our poster to share far and wide!

Finally, Annals of Botany isâ€hosting a symposiumâ€at the Madrid conference! If you would like to be considered to speak in the symposium, your abstract must be submitted by Nov 30th, 2023 through the conference portal.â€

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

Hope to see you in Madrid next year!â€

Michele Dudashâ€Michele.Dudash@sdstate.edu

Jeremieâ€Fant â€â€jfant@chicagobotanic.org

Rachelâ€Spigler â€rachel.spigler@temple.edu

Dr. Michele R. Dudash (she, her, hers) Professor and Head Department of Natural Resource Management McFadden Biostress Building 1390 College Avenue SNP 138C, Box 2140B South Dakota State University Brookings, South Dakota 57007-1696

Email: michele.dudash@sdstate.edu Phone: 605-688-6174 Fax: 605-688-4515 NRM web page: http://-www.sdstate.edu/nrm NRM Job Board: https://-www.facebook.com/SDStateNRMjobs/ SDSU Land Acknowledgement: https://www.sdstate.edu/wokini-initiative/land-acknowledgement NRM Graduate Program Information https://www.sdstate.edu/-natural-resource-management/graduate-programs Emeritus Professor, Department of Biology, University of Maryland, College Park, MD Dudash Lab page: https://micheledudash.wixsite.com/mysite (to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

Call ESEB JohnMaynardSmithPrize DeadlineJan15

European Society for Evolutionary Biology - Call for nominations - John Maynard Smith Prize 2024

Each year the European Society for Evolutionary Biology (ESEB) distinguishes an outstanding young evolutionary biologist with a prize named after John Maynard Smith (1920 - 2004), eminent scientist, great mentor, author of many books on evolution, and a former President of ESEB.

Nomination

The prize is open to any field of evolutionary biology. The candidates for the 2024 prize normally must have begun their PhD study after January 1, 2017. In addition, nominees more than 7 years from the start of their PhD will be considered if they have had career breaks taken for family, caring or health reasons; the nature of the reason must be given. Self-nominations are welcome. Documents supporting a nomination should be sent as a single PDF file to Ute Friedrich at the ESEB office (office@eseb.org). If you are nominating someone, send a letter of support for the nomination directly to Ute Friedrich and ask the candidate to send a brief description of the candidate's contributions to the study of evolution, the candidate's CV and list of publications

(indicating three most significant papers), and a short description of current and future research plans from the candidate (2 pages maximum) in a single pdf file. If you are self-nominating, send the same documentation mentioned above to Ute Friedrich and find a colleague to write a support letter for your nomination (please note that this person should directly send the letter to Ute Friedrich).

Nominations and letters of support should arrive no later than MONDAY, JANUARY 15, 2024. Please take care to limit the size of attachments (total < 10 MB) in any one email.

The nomination committee, chaired by the ESEB Vice President Josefa González, will evaluate the nominations and inform the winner approximately by the end of February 2024.

The prize winner is expected to attend the next Evolution joint meeting in July 2024 in Montreal, Canada or alternatively the ESEB congress in August 2025 in Barcelona, Spain, where he or she will deliver the 2024 John Maynard Smith Lecture. The Society will cover registration, accommodation, and travel expenses (economy fare). The JMS Prize comes with a monetary prize of 2500 euro , the invitation to write a review for the Journal of Evolutionary Biology, and the possibility of a Junior Fellowship of 6 months at the Institute of Advanced Study in Berlin, Germany. For more information on the Institute of Advanced Study see wiko-berlin.de/en/.

Previous winners of the JMS Prize are listed at the ESEB web site: https://eseb.org Sincerely, Josefa González ESEB Vice-President

European Society of Evolutionary Biology Email: office@eseb.org Website: eseb.org

ESEB Office <office@eseb.org>

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Call for EvolutionAssociateEditors

The Evolution editorial team seeks Associate Editors to serve three-year terms beginning January 2023 (see https://academic.oup.com/evolut). Twenty editors will be selected and notified this autumn.

Associate Editors receive free membership in SSE for the duration of their term and free registration for the annual Evolution Meetings (https://-www.evolutionmeetings.org/).

We strongly encourage nominations and self-nominations of individuals who represent the full diversity of the evolutionary biology community, including (but not limited to) all aspects of identity and background, types of institution, geographic location, or scientific approach.

To indicate your interest, provide your affiliation, research interests, and contact information in this short form:

https://docs.google.com/forms/-d/e/1FAIpQLSfbrrtmlpsJ YV8wp9lbInoaKevCSHF95HGrGjyizNC ZKWvQMQ/viewform?usp=sf_link

Jason Wolf <jbw22@bath.ac.uk>

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ESEB CallHewittMobilityAward DeadlineJan15

Godfrey Hewitt Mobility (GHM) Award 2024 - Call for Applications

Godfrey Hewitt (1940-2013) was President of the European Society for Evolutionary Biology (ESEB) from 1999-2001. He was exceptionally influential in evolutionary biology both through his research and through his mentoring of young scientists. He was also a great believer in seeing organisms in their environment first-hand and in exchanges of ideas between labs. Therefore, ESEB annually offers mobility grants for young scientists in his name.

Closing date: MONDAY, 15 JANUARY 2023.

ELIGIBILITY

The award is open to PhD students or postdoctoral scientists who are, at the closing date for applications, within 6 years of the start date of their PhD and ESEB members. In addition, applicants will be considered who are more than 6 years from the start of their PhD if they have had career breaks, worked part-time, or for other reasons have not worked continuously. Applicants who have previously received a Godfrey Hewitt mobility award are not eligible. The maximum single award will be 2000 Euros. It must be used to support fieldwork or

a period of research at a lab that you have not previously visited. There is no restriction on the country of residence or nationality of the applicant. A report will be required after one year.

APPLICATION PROCEDURE

Your application should be sent as a single PDF file to Ute Friedrich at the ESEB office, office@eseb.org. It should include your name, current status and institution, your PhD start date, your ESEB membership number, a description of the work to be carried out (maximum 500 words), an outline budget with brief justification (maximum 100 words) and a signed statement from your PhD supervisor or postdoctoral adviser (maximum 100 words) explaining why the work cannot be funded from your home institution or your proposed host institution.

Applications will be considered by a committee chaired by Andrea Betancourt. The aim will be to announce decisions before the end of February 2024. The committee will consider the following key criteria:

1. The value of the proposed mobility in terms of its expected output and impact on the applicant's career. The committee prefers projects that are: a. Not a core component of the applicant's existing PhD or postdoctoral project, but a new venture. b. Clearly based on the applicant's own initiative c. Likely to be completed and have definable output within the award period d. Have the potential to lead to larger future projects or to enhance the applicant's career in evolutionary biology

2. The need for the GHM award, i.e. the potential for the funding provided by ESEB to make a difference, in relation to resources already available through the home or host institution.

Please endeavour to address these points in your application.

Best wishes, Ute Friedrich, ESEB Office Manager.

European Society for Evolutionary Biology Homepage: eseb.org Email: office@eseb.org

ESEB Office <office@eseb.org>

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ESEB ConferenceTravelAward Aidgrant

ESEB Conference Travel Award

These stipends are for students and young scientists who are professionally based in countries with a low GDP to attend the next European Meeting of PhD Students in Evolutionary Biology (EMPSEB) from June 3rd - 6th, 2024 in Austria, or the joint Evolution conference of ASN/ESEB/SSB/SSE in Montreal, Canada, on July 26th-30th, 2024 (https://www.evolutionmeetings.org/). The stipend will contribute to covering travel, living expenses, and early bird congress registration fees. The funds will be paid out as a reimbursement after the congress, based on specification of the expenses. Note that the registration fee for the joint Evolution conference will be waived by the organisers and thus does not need to be included in the budget.

Please note that this Conference Travel Award is distinct from the Congress Attendance Aid Grant (https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/), which is designed to promote the attendance of underrepresented groups and to help with the additional costs of meeting attendance due to responsibilities for caring for dependents when attending the meetings and NOT for the costs of the applicant to attend the meeting.

DEADLINE: JANUARY 31th, 2024

ELIGIBILITY: - Applicants must be ESEB members before the deadline (for becoming an ESEB member, please visit https://eseb.org/society/eseb-membership/-). - Applications can be submitted by scientists at various stages of their professional career (e.g., Masters and PhD students, postdocs, and lecturers). - Scientists working in a country with high GDP are not eligible (for the list of excluded countries see below). - People who received an ESEB travel stipend in the last five years are not eligible. - Applicants must apply to present either an oral communication or a poster to be eligible for the stipend. Presentation of a talk or a poster will be verified before the reimbursement, but no proof that a poster or talk is accepted is necessary at the application stage. However, please note that being chosen for a travel award does not guarantee acceptance of a poster or talk at the conference. - Please note that these stipends are given in conjunction with analogous stipends offered by the Society for the Study of Evolution (separate call) to support participation at the joint Evolution conference in 2024. There is no need to apply to both, the ESEB and the SSE awards.

HOW TO APPLY:

Send your application by email to the ESEB Office (office@eseb.org; subject: Conference Travel Award 2024).

The application should be no more than 2 pages long

and include: - Name of the applicant; - ESEB membership number; - Budget, including sources of additional support; - An explanation of how attendance to the meeting will support the attendant's professional goals; - and a short CV.

Please submit the application as a single PDF-file.

A support letter from the applicant advisor/mentor/senior colleague is also required. Support letters should be sent to the same email address (office@eseb.org) by the applicant's mentor _BY THE DEADLINE_.

Members professionally based in the following high income countries are _NOT_ eligible for the travel stipend: American Samoa, Andorra, Antigua and Barbuda, Aruba, Australia, Austria, Bahamas, Bahrain, Barbados, Belgium, Bermuda, British Virgin Islands, Brunei Darussalam, Canada, Cayman Islands, Channel Islands, Chile, Croatia, Curacao, Cyprus, Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, French Polynesia, Germany, Gibraltar, Greece, Greenland, Guam, Guyana, Hong Kong, Hungary, Iceland, Ireland, Isle of Man, Israel, Italy, Japan, Korea Rep., Kuwait, Latvia, Liechtenstein, Lithuania, Luxembourg, Macao, Malta, Monaco, Nauru, Netherlands, New Caledonia, New Zealand, Northern Mariana Islands, Norway, Oman, Panama, Poland, Portugal, Puerto Rico, Qatar, Romania, San Marino, Saudi Arabia, Seychelles, Singapore, Slovakia, Slovenia, Spain, St. Kitts and Nevis, St. Martin (Dutch and French part), Sweden, Switzerland, Trinidad and Tobago, Turks and Caicos Islands, United Arab Emirates, United Kingdom, United States of America, Uruguay, Virgin Islands (US).

European Society for Evolutionary Biology (ESEB) Email: office@eseb.org Website: https://eseb.org —

ESEB Congress Attendance Aid Grant

The grant aims to ensure equal opportunities at the 29th European Meeting of PhD Students in Evolutionary Biology (EMPSEB) in Austria , or the joint Evolution conference of ASN/ESEB/SSB/SSE in Montreal, Canada, on July 26th-30th, 2024 (https://-www.evolutionmeetings.org/). The grant

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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 ECR AchievementAwardProposals

ESEB Under-represented ECR Achievement Award

Two annual awards of euro 2,000 will highlight the achievements of under-represented early-career researchers (ECRs) who have faced difficult circumstances while conducting their work. Applicable difficult circumstances may be but are not limited to disabilities, social/cultural/political persecution, refugee status, single parenting or other caring responsibilities that have created unequal opportunities. This year's winners will also be invited to speak at the Joint Congress of Evolutionary Biology in Montreal, Canada (July 26-30, 2024).

DEADLINE:JANUARY 31, 2024

ELIGIBILITY 1. The award is open to PhD students, postdoctoral scientists or non-tenure-track research fellows who do not hold a permanent academic position and have achieved their research while facing difficult circumstances. Note that researchers based in any country are eligible, irrespective of GDP status, and not just in Europe. 2. Applications may be submitted by the person benefiting from the grant, or by a colleague/supervisor when a letter is included from the nominee approving their nomination. 3. The person submitting the application must be an ESEB member, or become a member immediately after receiving the award (to become a member of ESEB, please visit our membership page at https://eseb.org/society/eseb-membership/). 4. Applicants who have previously received this award are not eligible. 5. The award stipend (2000 euro) will be spent at the discretion of the nominee. Nominees will be required to write a short summary of their achievement to be highlighted on the ESEB Equal Opportunities website and ESEB newsletter.

APPLICATION PROCEDURE

Applications should be sent as a single PDF file to Ute Friedrich at the ESEB office (office@eseb.org) with the subject line: 2024 Under-represented ECR Award. It should include

1. A cover letter with the nominee's name, current status and institution, PhD start date, duration and reason for any career breaks, nominee's or nominator's ESEB membership number, and a signed statement on what the nominee has achieved and why you considered the

nominee achieved it under difficult circumstances. The difficult circumstances are primarily, but not solely, disabilities, social/cultural/political persecution, refugee status, single parenting or other caring responsibilities. The letter should not exceed 2 pages. 2. A short CV of the nominee (1-2 pages) 3. Proof of the nominee's achievement: this can be for instance a PhD diploma, a publication, or an outreach initiative. 4. A letter of support from the nominee's host institution or a colleague.

Applications should be sent no later than Wednesday, January 31, 2024. Please take care to limit the size of attachments (total < 10 MB) in any one email.

Applications will be evaluated by the Equal Opportunity Committee chaired by Anne Charmantier, and winners will be informed around the end of February. Winners are encouraged to attend the next Evolution joint meeting in Montreal, Canada (July 26-30, 2024) where they will be invited to speak at the ESEB award symposium about their work and/or equal representation in the field of evolution. ESEB will contribute to the travel expenses and registration fees.

Previous winners can be seen here: https://eseb.org/-prizes-funding/equal-opportunities-initiative/eseb-under-represented-ecr-achievement-award/ Sincerely, Kelley Leung ESEB Equal Opportunities Initiative Member

European Society for Evolutionary Biology (ESEB) Email: office@eseb.org Website: https://eseb.org ESEB Office <office@eseb.org>

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Smithsonian NMNH GenomicAnalysisSupport

Okeanos Genome Skimming & Metabarcoding Project: looking for RFQ Contractor for Genetic Analysis Support

Quotes are dueï¿½to Allen Collins at COLLINSA@si.eduï¿½by 9:00AM ET, on Monday, November 18, 2023

The contractor shall provide professional, technical, non-personal services to the Department of Invertebrate Zoology to assemble, annotate, and upload mitochondrial genomes and ribosomal repeat regions to the public sequence database, GenBank, for Okeanos collected specimens using Illumina short read sequences (150 bp paired end, approximately 9-15 million reads per specimen). In addition, the contractor will process metabarcode libraries from eDNA samples and make the derived data public. Further details are included in the Statement of Work (Dated October 27, 2023). The period of performance is anticipated to begin around the start of January 2024, and run for 12 months.ï¿½

Please see https://naturalhistory.si.edu/-sites/default/files/media/file/-rfqokeanosgenomeskimmingmetabarcoding2023-10-27.pdf for full details.

"Murphy, Katherine R." <murphykr@si.edu>

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Survey EvolutionNonAcademicCareers

Hello all

This survey is set to close in two weeks (October 15) if you know someone who started out as an evolutionary biologist, and has a non-academic career, please pass the link along!

Best wishes, Andrea

Are you someone who trained as an evolutionary biologist or a closely related field, and then moved on to a career off the standard academic track (which we define here as PhD -> postdoc -> independent PI)? Would you like to help those who would like to explore options for careers outside academia?

If so, we would really value 10-20 minutes of your time answering some questions about your career path. We intend to publish the anonymised results and summarise data from this survey in an open access evolutionary biology journal. The goal is to provide information to trainees who would like to explore alternatives to academia, and to the supervisors/advisors/mentors who would like to be better equipped to help them.

Responses are purely voluntary, of course, and will be anonymous. This research project is being led by Andrea Betancourt at the University of Liverpool; please contact aabt@liverpool if you have any questions.

Survey link: https://liverpool.onlinesurveys.ac.uk/-

non-academic-careers-survey "Betancourt, Andrea" <aabt@liverpool.ac.uk>

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UWisconsin Madison EarlyCareerSeminarAward Spring

EvolDir,

Wisconsin Evolution at the University of Wisconsin-Madison is inviting early-career evolutionary biologists from outside UW-Madison to apply to participate in an early-career scientist seminar in Spring 2024 as part of our Evolution Seminar Series (https://evolution.wisc.edu/seminars/seminars-info/). Please come share your science with our community!

The 3-5 speakers selected for the series will be invited to visit UW-Madison, either in person or remotely. Each speaker will present a 50-minute seminar, ideally aimed at evolutionary biologists with a broad range of backgrounds. The speaker will also participate in a 45-minute discussion after the seminar with undergraduate evolution majors. For the day of the seminar, we will schedule meetings with faculty and students working in evolutionary biology. Speakers will receive a $150 honorarium.

Application deadline: November 30th, 2023.

Eligibility: Non-UW-Madison graduate students and postdocs who received a Ph.D. no longer than 5 years ago.

For more information about the award and to apply, please visit: https://evolution.wisc.edu/seminars/early-career-seminars/ For more information about our institute, please visit: https://evolution.wisc.edu/ For direct inquiries please contact Jassim Al-Oboudi (aloboudi@wisc.edu) or Emily Ubbelohde (ubbelohde@wisc.edu).

Thank you,

Jassim Al-Oboudi

PhD Student

Hittinger Lab

UW-Madison

aloboudi@wisc.edu

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WebinarSeries PopulationGeneticsVienna

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 Winter 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/N2mZ2QCdyzLFsV746 Schedule:

10.10.23 - Clara Groot Crego (Univ. of Vienna, AT) Disentangling the evolutionary drivers of an adaptive radiation in Tillandsia (Bromeliaceae).

17.10.23 - Rike Stelkens (Stockholm Univ., SE) A feast with yeast: Saccharomyces as a model system for population genetics.

24.10.23 - Burcin Yildirim (Vetmeduni, AT) Nonadaptive sequence evolution: influence of GC-biased gene conversion on the Drosophila genome.

31.10.23 - Harald Ringbauer (Max Planck Inst. for Evol. Anthropology, DE) Inferring long shared haplotypes in ancient DNA - What next?

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

14.11.23 - Stuart Wigby (Univ. of Liverpool, UK) Seminal stories: causes and consequences of variation in Drosophila male reproductive proteins.

21.11.23 - Irina Arkhipova (MBL Woodshole, US) How does horizontal transfer contribute to eukaryotic evolution?

05.12.23 - Charles Aquadro (Cornell Univ., US) Untangling the influences of genetics, ecology and function in shaping the surprisingly rapid evolution of germline stem cell genes in Drosophila.

12.12.23 - Milan Malinsky (Univ. of Bern, CH) Genome evolution, natural selection, and recombination landscapes.

19.12.23 - Justin Crocker (EMBL Heidelberg, DE) Mul-

tidimensional approach to decoding the mysteries of animal development.

09.01.24 - Mark Phillips (Oregon State Univ., US) Using experimental evolution to study variation in life-history patterns.

16.01.24 - Maud Fagny (INRAE, FR) The adaptation of polygenic traits: from phenotypes to genes, are regulatory networks the missing link?

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

30.01.24 - Daniel Bolnick (Univ. of Connecticut, US) A coevolutionary pyrrhic victory: rapid evolutionary gain and loss of a costly but effective immune defense.

All webinars organised by the Vienna Graduate School of Population Genetics are available on our website https://www.popgen-vienna.at/news/-seminars/ Many talk 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 fi¿½r Mathematik, Universiti¿½t Wien & Institut fi¿½r Populationsgenetik, Veterini¿½rmedizinische Universiti¿½t Wien

T +43 1 25077 4302 T +43 1 25077 4302

PostDocs

AMNH NewYork NaturalHistory

We are pleased to announce that we are accepting applications for our Postdoctoral Research Fellowships Program at the Richard Gilder Graduate School at the American Museum of Natural History.? Deadline: November 15, 2023.

The Postdoctoral Research Fellowship Program at the American Museum of Natural History provides training to postdoctoral investigators to carry out a specific project within a limited time period. The project must fit into one or more of the Museum's areas of interest: Anthropology, Invertebrate Zoology, Paleontology, Physical Sciences (Astrophysics and Earth & Planetary Sciences), and Vertebrate Zoology. This Fellowship Program is designed to advance the training of the participant by having them pursue a project in association with Museum professionals in the Museum setting.

Postdoctoral Fellows of all groups listed above will be hired as full-time employees of the American Museum of Natural History. During their employment they will receive full medical insurance, as well as all other AMNH employee benefits. Limited relocation, research, and publication support is provided. Appointments are typically made for up to two years. Postdoctoral Fellows are expected to be in residence working at the Museum. Newly graduated or soon-to-graduate PhDs may apply.?Fellows must have received their degrees or deposited their dissertations before they can begin their appointments. There are no citizenship or geographic requirements to apply.

Details about the Postdoctoral Research Fellowships Program can be found on https://www.amnh.org/-research/richard-gilder-graduate-school/academics-and-research/fellowship-and-grant-opportunities/-postdoctoral-research-fellowship-program . Please contact us (mailto: fellowships-rggs@amnh.org) if you need any further information.

Richard Gilder Graduate School American Museum of Natural History https://www.amnh.org/research/-richard-gilder-graduate-school

amanuel@amnh.org

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ArizonaStateU ClimateAdaptation

We are seeking a postdoctoral researcher to join a vibrant team of researchers investigating the impacts of climate change on sensory systems and behavior in fish (See the NSF grant abstract here: https://www.nsf.gov/-awardsearch/showAward?AWD_ID=2307683).

The postdoc will (1) conduct behavioral and sensory experiments of laboratory zebrafish exposed to different climate change factors (including transcriptome), (2) collaborate on experiments to enhance resilience of fish through sensory training, and (3) contribute to field experiments on Arizona desert fishes. They will also travel to conferences, write scientific papers to disseminate project results, and collaborate with Arizona Game & Fish scientists on outreach activities.

The project is centered at Arizona State University-Tempe, working Drs. Emilia Martins and Piyumika Suriyampola. Ideally starting in January 2024. To apply, visit http://apply.interfolio.com/133407, and submit materials by December 1, 2023.

Inquiries are welcome; please contact emilia.martins@asu.edu

Emilia Martins <Emilia.Martins@asu.edu>

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Bolzano Italy Barkbeetle Ecology

Two Postdoctoral positions are available at the Free University of Bozen-Bolzano (Italy) in the lab of Hannes Schuler. The project is funded for two years and aim to study the European spruce bark beetle Ips typographus and its association with microorganisms, nematodes and mites.

The European spruce bark beetle Ips typographus is one of the most important forest pests in Europe. Symbiotic associations with fungi and bacteria are an important factor in the biology of this species. The focus of this project is to study the associations of bark beetle populations with symbiotic bacteria and fungi to obtain a

more holistic understanding of the biology, ecology and harmful potential of this beetle. Moreover, we aim to study the role of nematodes and mites on the fitness of this pest species. The project is in collaboration with Martin Schebeck and Christian Stauffer (Boku, Vienna), Andrea Battisti (University of Padova) and Peter Biedermann (University Freiburg).

Position 1: We are looking for an enthusiastic candidate with a strong background in molecular biology and experience with bioinformatic analyses of bacterial and/or fungal communities associated with insects. The candidate will be responsible to perform amplicon-sequencing as well as whole genome sequencing for bacteria and fungi.

Position 2: We are looking for a candidate with entomological skills and interests in experimental field research. Experience with molecular tools is desired but not required.

The Free University of Bozen-Bolzano is located in one of the most fascinating European regions, at the crossroads between the German-speaking and Italian cultures. Its trilingualism in teaching and research, its high level of internationalization as well as an ideal research environment guaranteed by its excellent facilities are some of the reasons why unibz regularly reaches top positions in national and international rankings. Our lab is part of the newly funded competence Centre for Plant Health < https://www.unibz.it/-en/home/research/competence-centre-plant-health > within the Department of Agricultural, Environmental and Food Sciences. We are a young and dynamic research group studying various aspects of insect-microbe interactions in a collaborative atmosphere http://-hschuler.people.unibz.it General requirements for the position: A PhD (or soon to be finished) in Biology or Evolution or related fields. The candidate should have excellent communication skills and should be fluent in English. The project is expected to start in January 2024, but the starting date is negotiable.

Application deadline for position 1 is 03.11.2023 (noon). All documents for the application procedure can be found at: https://www.unibz.it/en/home/position-calls/positions-for-academic-staff/6699-allgemeine-und-angewandte-entomologie-prof-schuler?group= Position 2 will be advertised soon, and should be published in the next days here: https://www.unibz.it/-en/home/position-calls/positions-for-academic-staff/-?departments=1463&group= For informal inquiries, and for questions about the hiring process, please contact Hannes Schuler hannes.schuler@unibz.it

Prof. Hannes Schuler Competence Centre for Plant Health Faculty of Agricultural, Environmental and Food Sciences Free University of Bozen-Bolzano Universitï¿½tsplatz 5 I-39100 Bozen-Bolzano Tel: +39 0471 017648 http://hschuler.people.unibz.it Schuler Hannes <Hannes.Schuler@unibz.it>

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ClermontFerrand France CoxiellaPathogenPhylogeny

We are recruiting a postdoc to join our group on the epidemiology of animal and zoonotic diseases (epia.clermont.hub.inrae.fr) to work in the fields of bacterial genomics, phylogenetics, disease ecology and epidemiology.

The position is funded by Q-Net-Assess (Improved molecular surveillance and assessment of host adaptation and virulence of Coxiella burnetii in Europe), an ICRAD European research program on Q fever, a zoonotic disease caused by Coxiella burnetii infections.

Your main task will be to carry out a genome-based phylogenetic study of C. burnetii across Europe, in collaboration with partners of the project. This would be based on ~200 bacterial genomes from different host species and different countries.

You will also be involved in various analyses designed to complement the information provided by the genome-based phylogenetic analysis to explore the factors that determine the distribution of C. burnetii lineages on a regional scale. This involves studying the evolution of quantitative virulence traits obtained for a subset of strains and the analysis of bacterial genotyping data obtained at a finer scale.

Job Offer Details: Position: Post-doctoral researcher Duration: 2 years Gross salary: between 2,600 euro and 3,300 euro depending on experience Location: Theix close to Clermont-Ferrand, France Starting Date: as soon as possible (before April 2024)

Applications before Novembre 7, 2023

Please send an email to elsa.jourdain@inrae.fr, xavier.bailly@inrae.fr and julien.theze@inrae.fr with : - a cover letter detailing your research interests, relevant experience, and motivation for the position. - a curriculum vitae with a list of publications and contact information of two professional references

Please feel free to contact us for any inquiries regarding

the position or the application process.

Xavier Bailly <xavier.bailly@inrae.fr>

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DalhousieU ProtistExperimentalLateralTransfer

The Collier and Rest labs at Stony Brook University, in collaboration with the Archibald lab at Dalhousie, invite applications for a postdoctoral position focused on unraveling the complexities of symbiosis using the marine thraustochytrid Aurantiochytrium limacinum. This organism stands out for its intriguing case of lateral transfer of carotenoid biosynthesis genes and provides a fertile ground to study host-virus interactions with 'Mirusviricota'. This position offers the opportunity to contribute to defining cellular and metabolic factors that influence obligate endosymbioses and the determinants steering successful (endo)symbiont-to-host gene transfer.

The position is located in the School of Marine and Atmospheric Sciences and Department of Ecology and Evolution at Stony Brook University. Applicants must have previous experience with CRISPR-Cas9 genome editing techniques. The goal of the postdoc position is to develop expression vectors and ribonucleoprotein-based approaches for delivering CRISPR gene editing components to A. limacinum. Additional goals include utilizing CRISPR-Cas9 editing to generate targeted mutants and working collaboratively with the Archibald lab on naturalistic lateral gene transfer experiments. The project is funded by the Gordon and Betty Moore Foundation.

Join us in uncovering new insights into marine microbial eukaryote genetics and symbiosis, while enhancing your research profile in a vibrant, collaborative research environment. For more information about work on labyrinthulomycetes at SBU, see https://you.stonybrook.edu/labyrinthulomycetes/
For an exploratory chat or more details about the job, contact jackie.collier@stonybrook.edu and joshua.rest@stonybrook.edu. For details about the position or to apply visit https://you.stonybrook.edu/-labyrinthulomycetes/join-us/ or the job posting at https://stonybrooku.taleo.net/careersection/2/-jobdetail.ftl?job=2303883 Deadline Nov 9 2023

Joshua Rest, Ph.D. Associate Professor, Dept. of Ecology & Evolution, Stony Brook University https://phylogenetic.com Joshua Rest <Joshua.Rest@stonybrook.edu>

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DurhamU EvolutionMutualism

Postdoctoral Research Associate in Plant Comparative Genomics & Phylogenomics

Durham University - Department of Biosciences, UK ??? 4 Years position

Salary: ??37,099 to ??44,263 per annum. Grade 7

Key words: Mutualism, symbiosis, plants, ants, comparative genomics, phylogenomics, phylogenetic comparative methods.

Applications are invited for a Postdoctoral Research Associate in Plant comparative genomics and phylogenomics. The project focuses on the impact of mutualism breakdown on the genome, using the ant-plant symbiotic clade Hydnophytinae (Rubiaceae). The Hydnophytinae contain 105 epiphytic plant species in Australasia, and involve plants with several levels of mutualistic dependence on ants: facultative species inhabited by generalist arboreal ants, obligate species depending on one or two specialized ant species, and species that have secondarily lost the association with ants. The Hydnophytinae offers unmatched evolutionary replication for studying mutualism breakdown due to its abundant breakdown events relative to clade size. The project, funded by ERC/UKRI, is led by Professor Guillaume Chomicki and will investigate the consequences of mutualism breakdown, using Hydnophytinae as a model system.

The successful applicant will have the necessary experience and skills to contribute to the research project by leading the part on comparative genomics and phylogenomics. In a nutshell, this will involve (1) building a solid phylogenomic framework for all 105 Hydnophytinae species plus outgroups, and (2) assemble and annotate genomes for all these species, (3) to study the evolution the mutualistic gene toolkit (contraction and expansion, selection), and (4) ask whether there are genome-wide signatures of mutualism breakdown.

Please get in touch for more information about the

project: guillaume.chomicki@durham.ac.uk

Open to applicants worldwide

Apply:

https://www.jobs.ac.uk/job/DDO779/postdoctoral-research-associate-in-plant-comparative-genomics-and-phylogenomics "CHOMICKI, GUILLAUME" <guillaume.chomicki@durham.ac.uk>

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Fribourg Switzerland BalancingSelection

The Flatt lab at the Department of Biology, University of Fribourg, Switzerland has an opening for a Postdoctoral Researcher in Evolutionary Genetics to study fundamental questions about the maintenance of adaptive polymorphisms in natural populations by different forms of balancing selection.

THE PROJECT The Postdoc will work on a new project, funded by the Swiss National Science Foundation (SNSF), focusing on chromosome inversions/"supergenes" in the ancestral African range of fruit flies (Drosophila melanogaster) and how they are maintained by balancing selection. The project entails an exciting combination of approaches spanning population genomics, bioinformatics, transcriptomics, phenotypic assays of fitness-related traits, experiments with population cages (mescosoms) both in the laboratory and outdoors, as well as field work.

The Postdoc (and a PhD student to be hired) will be embedded in a larger project team in the Flatt lab, involving a senior postdoc, a technician and several undergraduate students, as well as in close collaboration with our international project partners Rashidatu Abdulazeez (Ahmadu Bello University, Nigeria), Martin Kapun (Natural History Museum Vienna), Miyanda Moonga (University of Zambia), Paul Schmidt (University of Pennsylvania), John Pool (University of Wisconsin), and others.

YOUR PROFILE We are looking for highly motivated candidates with a strong background in evolutionary biology and/or population genetics, and with a keen interest in combining experimental and computational work. Prior experience with population genomic analyses/bioinformatics and/or Drosophila evolutionary genetics would be a plus. Candidates should be self-motivated and driven by scientific curiosity; possess a strong work ethos; be able to work independently; have strong communication and interpersonal skills as well as the ability to integrate and work in a team.

THE WORK ENVIRONMENT Our lab and the Department of Biology offer a very friendly and stimulating work environment, with excellent conditions in terms of infrastructure, know-how, and collaboration. Fribourg is vibrant medieval university town with a large student population (https://www.unifr.ch/studies/en/-choose-fribourg/life-in-fribourg.html), situated close to the capital of Bern and the beautiful Swiss pre-Alps and Alps. For more information on our research see https:/-/www.unifr.ch/bio/en/research/eco-evol/flatt.html. For more information on the Department of Biology at Fribourg see: https://www.unifr.ch/bio/en/ *THE POSITION* Starting date by arrangement; the position is for up to a maximum of 4 years; salary according to institutional and SNSF guidelines (details upon request).

HOW TO APPLY Please send a motivation letter, CV, description of previous research, and the names and contact details of three references in a single pdf file to thomas.flatt@unifr.ch

Deadline: 5 November 2023.

Prof. Thomas Flatt Department of Biology University of Fribourg Chemin du Musée 10 CH-1700 Fribourg Switzerland

e-mail: thomas.flatt@unifr.ch phone: +41 26 300 8833 phone: +41 26 300 8850 (secretary)

https://www3.unifr.ch/bio/en/groups/flatt/ European Drosophila Population Genomics Consortium: http://-droseu.net/ FLATT Thomas <thomas.flatt@unifr.ch>

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Gif-sur-Yvette YeastQTLs

We are recruiting a Research Ingineer for a 16-month position in Gif-sur-Yvette (France) within the ANR EVOLREC project.

(https://anr.fr/PROJET-ANR-20-CE13-0010)

The successful candidate will be in charge of the functional validation in S. cerevisiae of meiotic recombination QTLs identified in the EVOLREC project. The work

will take place within the group Biology of Adaptation and Systems in Evolution (BASE) of the joint research unit Quantitative Genetics and Evolution (GQE) - Le Moulon at IDEEV in Gif-sur-Yvette.

The project addresses the interplay between meiotic recombination and adaptation, with a particular focus on the genetic determinism of quantitative variations of recombination rate. To do so, yeast populations with a high initial level of genetic diversity have been subjected to 10 sexual generations of divergent selection on recombination by FACS based on fluorescent markers segregation. To identify the genetic determinants underlying the observed response to selection, the populations were pool-sequenced to identify recombination QTLs acting in cis and in trans. We are now in the process of validating the candidates found through functional genomics approaches including allelic replacement and overexpression.

More details on our site < https://moulon.inrae.fr/-en/news/2023/10/research-ingineer-position-cdd-16-months-in-genetics-of-meiotic-recombination/ >

Background: Master or PhD in genetics or molecular biology. Practical experience of bench work in molecular biology or microbiology is required. The position would start on December 1st, 2023 for 16 months.

Feel free to reach out to me directly at matthieu.falque@inrae.fr

Matthieu Falque Génétique Quantitative et Evolution - Le Moulon INRAE - Université Paris-Saclay - CNRS - AgroParisTech Ferme du Moulon, 91190, Gif sur Yvette, France http://moulon.inra.fr/ Tel. +33(0)169332364

Tout message que j'envoie en dehors des heures de travail réglementaires ne nécessite aucune réponse immédiate

Matthieu Falque <matthieu.falque@inrae.fr>

HarvardU Arboretum PlantEvolution

Arnold Arboretum Postdoctoral Fellowships

The Arnold Arboretum of Harvard University invites early career scientists to apply for a unique opportunity to start a research career as independent postdoctoral fellow while gaining training and connections within the framework of a top-tier academic environment. The Katharine H. Putnam Fellowship in Plant Science supports scientists focused on utilizing the Arnold Arboretum's living collections of woody plants to study any area of plant science. The Global Change Postdoctoral Fellowship supports researchers that tackle any area of global change science utilizing the myriad resources of the Arnold Arboretum. The Arnold Arboretum of Harvard University and its urban landscape in Boston are particularly well-suited for global change and plant science research. It is both an outdoor museum of the world's temperate trees and other woody plants grown in a public open space, all within sight of the Arboretum's state-of-the art research facilities.

Deadline: Jan 11

Fellowship Details:

An Arboretum Postdoctoral Fellowship includes a salary of $83,000 per year, health insurance eligibility, and annual support of up to $10,000 for professional expenses including research, travel, relocation to Boston (and up to $2,500 of total budget). Fellows are expected to be in full-time residence at the Arboretum during their 2-year tenure and are provided office and research space. It is not necessary to have a specific faculty host. Fellows can start between July 1 and the beginning of September.

Eligibility:

Applications are sought from early-career individuals with a PhD in life sciences, plant biology, evolution, plant genetics, plant ecology, horticulture, or related discipline. Applicants must have their PhD when they initiate their term at the Arboretum. We strongly encourage applications from groups under-represented in the sciences. Foreign nationals are eligible to apply, but applicants are expected to be fluent in English.

More information:

https://arboretum.harvard.edu/research/programs-and-opportunities/global-change-postdoctoral-

fellowship/ Commitment to Equity, Diversity, Inclusion, and Belonging

Harvard University and the Arnold Arboretum view equity, diversity, inclusion, and belonging as the pathway to achieving inclusive excellence and fostering a campus culture where everyone can thrive. We strive to create a community that draws upon the widest possible pool of talent to unify excellence and diversity while fully embracing individuals from varied backgrounds, cultures, races, identities, life experiences, perspectives, beliefs, and values.

EEO Statement

We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, gender identity, sexual orientation, pregnancy and pregnancy-related conditions, or any other characteristic protected by law.

"Rosin, Faye M" <frosin@oeb.harvard.edu>

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iomE Mainz Germany AntEvolutionLearning

Postdoctoral Researcher Position at the iomE Mainz, Germany: Evolution and Epigenetic Regulation of spatial learning in ants

How do insects learn to find their way around a maze? When does it make sense for them to forget? What are the molecular bases of learning and forgetting in these social insects? How are those genes regulated on an epigenetic level? Join us as a postdoctoral researcher at Johannes Gutenberg University of Mainz, Germany, investigating the molecular foundations of cognition in Cataglyphis ants. Uncover the complexities of insect navigation and the equilibrium between memory formation and forgetting. Partnering with Dr. Inon Scharf (Univ Tel Aviv, Israel) and Dr. Romain Libbrecht (Univ Tours), our research, funded by the German Science Foundation (DFG), builds upon pioneering experiments investigating (epi-)genetic influences on ant cognition during spatial orientation.

With a PhD in evolutionary or behavioral biology, molecular genomics, or bioinformatics and a good publication record, you possess what is needed for this position. Funding is secured over 20 months, and the position could potentially be extended. Be part of the Institute of Organismic and Molecular Evolution at Johannes Gutenberg University in Mainz and a team of researchers working on the evolution of gene regulation https://-www.genevo-rtg.de/, combining behavioral experiments, evolutionary theory, molecular biology and bioinformatics.

Applications are accepted until October 3rd, 2023. To apply, send a letter of motivation, CV with publication list, and contact details of two referees to Susanne Foitzik at foitzik@uni-mainz.de.

Prof. Dr. Susanne Foitzik Institute of Organismic and Molecular Evolution Johannes Gutenberg University Mainz Biozentrum Hanns Dieter Hï¿½sch Weg 15 D-55128 Mainz Germany Tel: +49 (0) 6131 39 27 840 Fax: +49 (0)6131 39 27 850 Email: foitzik@uni-mainz.de

"Foitzik, Susanne" <foitzik@uni-mainz.de>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

Italy TickPopulationGenomics

Milan and Pavia, Population genomics of ticks and their bacterials symbionts

Ticks are recognized as the most important vectors of diseases in Europe, but their distribution is changing and expanding. Ticks of the genus Ixodes, in particular, are widespread in the continent, with multiple species being competent vectors of highly impactful diseases, from the viral tick-borne encephalitis to the chronic, debilitating and hard to diagnose Lyme disease. Additionally, due to their peculiar and nutritionally unbalanced blood-based diet, ticks live in tight association with nutritional bacterial symbionts (e.g., Midichloria mitochondrii).

This project will introduce a novel approach to study populations of Ixodes ticks, in particular Ixodes ricinus. Specifically, we will establish a novel triangulated population genetic approach. Leveraging a set of tick specimens collected across the European continent, for each specimen we will determine the full mitochondrial genome, a representative set of nuclear SNPs by RAD-Seq, and a set of typing loci for the bacterial symbionts.

Thanks to this approach, ticks will be characterized at an unprecedented detail, allowing us to answer ba-

sic evolutionary biology and demography questions on ticks, including the consistence between genetic and morphological diversity, and the role of geographical boundaries in the tick diversification. Moreover, the relationship between the Ixodes ricinus and other co-occuring congeneric species will be explored, as well as the transmission modes (vertical or horizontal) of symbionts through Ixodes populations. The knowledge that will be generated will lay the foundation for novel, data informed, efforts for tick monitoring in Europe.

The hired candidate will be involved in a friendly and collaborative research environment. In particular, this project will be carried out in synergy with multiple research groups at the University of Milan and the University of Pavia, Italy, namely research groups of Claudio Bandi (Milan), Davide Sassera (Pavia), Antonio Torroni and Anna Olivieri (Pavia).

The candidate should have a strong interest and background in evolutionary biology and population genetics. Since the role of the hired personnel in the project will be focused strictly on in silico analyses, previous experience in computational biology, in particular in population genetic and genomic analyses, will be a preferential selection criterion.

Period: starting in early 2024, duration 1-2 years (flexible) Title: flexible for Pre- or Post-Doc, depending on the applicants' profiles Please send your CV, the names and contact information of two references as well as a letter of interest to both the contacts below:

Claudio Bandi claudio.bandi@unimi.it Davide Sassera davide.sassera@unipv.it

Davide Sassera <davide.sassera@unipv.it>

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

JagiellonianU AmphibianDiseaseEvolution

Postdoc position in Amphibian Disease Ecology, Evolution & Immunogenetics

We are seeking for a postdoctoral researcher in amphibian disease ecology, evolution, and immunogenetics to work in the Genomics and Experimental Evolution group at the Institute of Environmental Sciences, Jagiellonian University, Krakow, Poland. The position is part of the National Science Centre (NCN) grant "The role of blood parasites in emerging disease dynamics and biodiversity loss in amphibians".

Background. Understanding interactions between pathogens and between pathogens and hosts is essential to infer the evolution of disease dynamics, host immunity, and pathogen virulence. Such knowledge is crucial in endangered taxa such as amphibians, where emerging infectious diseases play a major role in their dramatic decline.In this project, we propose to assess the role of hematic parasites in the dynamics of emerging diseases and the impact on the host immune system (in particular MHC genes).

Job description. The postdoc willcontribute to the following aims of the project:i) to discover the interactions between hematic and emerging pathogens; ii) to assess the adaptive potential of amphibians to respond to pathogen threats in infected populations; iii) to investigate the potential relationship between parasite infections and MHC diversity. The position will involve bioinformatics and statistical modelling. (S)he will work together with the PI and other team members, including a network of international collaborators.

Requirements. The suitable candidate will have a PhD degree obtained no earlier than in 2017 (extensions for parental leave apply), be fluent in English and have a strong interest in disease ecology and evolutionary biology. The candidate should have experience in bioinformatic analysis of NGS, mixed models, and MHC diversity; a background in blood parasites or emerging amphibian diseases will be an advantage. Employment: full-time research for two years. Salary: approx. 7800 PLN gross (before tax, including benefits).

How to apply. The application—(one single pdf file) should include: cover letter, CV with the list of publications, contact details of two referees and a scan of the PhD certificate. Please send the application by e-mail to: gemma.palomar@uj.edu.pl by 30 October 2023 at the latest. Selected candidates will be invited for live or Skype interviews. Preferred starting date December 2023.

Gemma Palomar <gempalom@ucm.es>

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LaTremblade France MarinePathogenEvolution

Dear colleagues,

We, Simon Dellicour and I, are seeking to hire a postdoc for a research project focused on enhancing our understanding of the spatial spread of marine pathogens (an 18 month position, located in France, at the Atlantic Center - Station of La Tremblade). The detailed job description is attached, and applications must be submitted through this link: https://ifremer-en.jobs.net/en-GB/job/post-doctoral-position-in-spatial-epidemiology-m-f/J3Q7GC631NMH4PZCPJF Please feel free to share this opportunity with anyone who may be interested.

Best regards,

Maude

Maude JACQUOT

Unit? Adaptation et Sant? des Invert?br?s Marins (ASIM) Station Ifremer de La Tremblade Avenue de Mus de Loup Ronce-les-Bains 17390 La Tremblade, France

Web unit? ASIM : https://asim.ifremer.fr Page personnelle : https://annuaire.ifremer.fr/maude-jacquot

Bureau : +33 5 46 76 26 82 Portable : +33 7 72 10 66 09

Maude Jacquot <maude.jacquot@ifremer.fr>

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Lisbon TheoQuantBiology

Dear colleague,

Apologies for the impersonal e-mail. I write to let you know of an open call for a post-doc program that I am coordinating at the Gulbenkian Institute in Lisbon: PONTE fellows in Theoretical Quantitative Biology, 2023 call.

This three-year position is aimed at junior PhD graduates. During this time PONTE fellows should perform research on theoretical biophysics in collaboration with theoretical and/or experimental groups at the institute. Candidates are expected to be very independent and capable of establishing such collaborations without supervision. The position comes with several benefits: funding for traveling and hosting visitors, funding to organize a QBio winter school, subsidy for moving costs, etc. Start date is flexible. You can find more information about the program and current fellows on this link

https://gulbenkian.pt/ciencia/training/postdoctoral-training/ponte/ The Gulbenkian Institute provides a world-class scientific environment, and is ideally located within walking distance from the beach. Furthermore, it is a highly international and diverse institution with gender parity at all levels: direction, PIs, post-docs and students. As such, women are highly encouraged to apply to the PONTE program.

I would be grateful if you could pass this ad to potential candidates or circulate it in your networks. Inquiries concerning the program should be sent to ponte-qbio@igc.gulbenkian.pt

Thanks in advance for your help!

Best wishes,

“Lounes Chikhi (Univ Toulouse)” <lounes.chikhi@univ-tlse3.fr>

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Mainz Germany EvolutionaryGenomics

The Institute of Organismic and Molecular Evolution at the University of Mainz, Germany, invites applications for a postdoc position for evolutionary genomics in the department of Evolutionary Plant Sciences, headed by Prof Shuqing Xu (https://plant-x.uni-mainz.de/).

The successful candidate may start on the 1st of Feb 2024, or as early as possible. The salary will initially be provided for three years, with the possibility of an extension.

Supported by other group members, the candidate will work on the evolution of gene functions and regulations at cellular level using use the state-of-the-art genomic tools. During the project, the candidate will mature his/her scientific skills and develop independence in

project planning and management skills. The candidate is encouraged to apply for additional third-party funding to establish his/her own subgroup.

Requirements: We are looking for a highly motivated researcher with a doctoral degree, or an equivalent thereof, in biology, evolutionary genetics, bioinformatics, or computer science. The candidate is expected to design, conduct and organize the projects independently. A training background in bioinformatics, evolutionary genetics/genomics or single-cell sequencing is preferred. Applicants must demonstrate experience in statistics and genomics. Experience with molecular biology, epigenetics, and computational modelling is a plus. Our group consists of people of various nationalities and teamwork is essential for all projects in the group. Therefore, excellent communication skills, as well as proficiency in spoken and written English, are expected. Good knowledge of German is a plus.

The University of Mainz hosts many excellent scientific institutions (http://www.uni-mainz.de/eng/), and Mainz is a historic city located on the Rhine River with many students and a rich social and cultural life.

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

Applicants should send their documents in one single PDF file to Prof Shuqing Xu (shuqing.xu@uni-mainz.de) with the subject line Evolutionary Genomics Postdoc Position Your Name. The application review will commence on 31st October 2023. The position will remain open until filled.

Prof. Dr. Shuqing Xu Institute of Organismic and Molecular Evolution (IomE) Johannes Gutenberg University Mainz Biozentrum I Hanns-Dieter-Hüsch-Weg 15 D-55128 Mainz Germany Phone: +49 6131 39 26907 E-mail: shuqing.xu@uni-mainz.de

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

Marseille France MathematicalModellingGutMicrobiome

2-year postdoc position: Mathematical modelling of the gut microbial community (Université d'Aix-Marseille)

Context and project:

Animals do not live in isolation, but rather share their body with a multitude of microbes organized in ecosystems forming their microbiome. In many species, most of these microbes live in the gut, where a healthy microbiome performs important functions at the benefit of its host, for example, helping it with digestion. Studies have shown a link between the diversity of the gut flora and its host's health status; thus, it seems to be in the interest of the host to be able to maintain a diverse microbial community. While direct actions of the immune system might be costly for the host to manage, diet control is a generic mechanism that comes at minimal cost and that hosts may have evolved to manipulate beneficially. We aim to progress towards a better understanding of the impact of diet on the gut microbial composition, by developing ecological models of population dynamics with modulated microbial and nutritional content of the diet. Specific attention will be paid to the temporal pattern of the diet, as feeding intermittency is the norm in the animal kingdom. The recruited postdoc will build theoretical models of microbial communities, exchanging with experimental biologists, and using a combination of analytical calculations and numerical simulations.

Keywords: mathematical modeling, ecology, microbial community, gut microbiome, feeding

Expected profile:

The candidate should hold a PhD (or have it completed before the start of the position) in a relevant field (e.g. applied mathematics, physics, theoretical ecology,Â). They should have a solid mathematical background and coding skills, plus experience with modelling. Previous experience with microbial communities, immunology, diet modelling or interdisciplinarity would definitely be an added asset. Excellent (written and oral) communication skills in English are required. Knowledge of French is not required. The lab is committed to creating an inclusive environment open to individuals from different cultures, ethnicities, and socio-economic backgrounds.

Practical information:

The postdoc position is funded for two years and can start as soon as a suitable candidate is found, but no later than February 2024. Application review will proceed until the position is filled. The position is funded by The Turing Center for Living Systems (CENTURI), an interdisciplinary center that aims at deciphering the complexity of biological systems and federates researchers from 20 different research institutes in biology, physics, mathematics, computer science and engineering. The recruited postdoc will conduct their project at the Laboratoire de Chimie Bactérienne (one of CENTURI's members), a cutting-edge microbiology lab in the process of developing a strong research axis around microbial ecology, with exciting potentials for collaborations around metabolic questions.

To apply, please send a CV and a cover letter describing your interest and previous work and stating the name and contact details of two academic references to florence.bansept@univ-amu.fr

Florence Bansept <florence.bansept@univ-amu.fr>

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MemphisZoo AmphibianEvolution

3-year Postdoc in Ex/In Situ Amphibian Conservation & Research (Amphibian Lab, Department of Conservation and Research, Memphis Zoo, Memphis, TN, USA)

The Memphis Zoo is seeking an independently motivated, ambitious, and highly energetic individual for a 3-year Post-doctoral Research Fellowship in the Department of Conservation and Research to work with Dr. Sinlan Poo (Curator of Research). Specifically, the Memphis Zoo is seeking a candidate with experience linking ex situ and in situ Conservation with specialization in Amphibian Ecology.

Essential Duties and Responsibilities The purpose of the post-doc is to broaden the Memphis Zoo's progress towards its top-tier wildlife conservation priorities. The Fellow's responsibility is to develop new research projects and nurture existing conservation-oriented partnerships. We are seeking candidates that have backgrounds and skills which enable them to lead conservation programs for amphibians, with the potential to develop projects in other subjects/taxa. We seek a passionate conservation biologist who is able to apply their expertise to expand upon the foundations of amphibian conservation and research at the Memphis Zoo (See Memphis Zoo website and list of recent publications). We seek a scientist with demonstrated research output, productivity, grantsmanship and significant promise of interdisciplinary research, local and regional collaborations, scholarship, and conservation practice. Within this framework, research focus could be in any area related to biodiversity conservation, including, but not limited to, ecology, evolution, animal behavior, biophysics, microbiology, ecophysiology, systematic, field biology, etc.

The successful candidate will be expected to: 1) Develop, conduct, and supervise projects that make a clear, positive, and measurable impact on the target conservation issues in amphibians, specifically for the dusky gopher frogs (Lithobates sevosus) which is a flagship conservation species at the Memphis Zoo. 2) Effectively communicate conservation and research efforts, goals, and accomplishments to the public. 3) Successfully pursue networking opportunities and collaborations with universities and partnering Institutions. 4) Secure external funding to augment internal research funds. 5) Engage in media, development, and public speaking opportunities. 6) Mentor, nurture, and develop research capacity in students, interns, and technicians. 7) Foster a positive, collaborative, safe, and encouraging professional environment. 8) Perform various duties as assigned.

Technical / Professional Requirements & Qualifications Minimum requirements:

- Ph.D. in biological sciences or related field. (Must be completed by Dec 2023.) - Experience designing and coordinating research projects. - Strong record of peer-reviewed publications in relevant disciplines. - Proficiency in R statistical software or equivalent.

Preferred qualifications:

- 5+ years of experience developing, leading, and managing research projects. - Exceptional communication, interpersonal, and team facilitation skills. - Ability to cultivate and maintain effective working relationships with a diversity of groups including various departments within the zoo, university collaborators, state and federal agencies, and the public. - Effective articulation of scientific discoveries and conservation issues to the public. - Ability to demonstrate critical thinking and analytical skills required for strategic planning. - Proven track record for developing inter-institutional research collaborations. - Experience in domestic or international field research. - Strong record of student mentorship. - Deep understanding and/or lived experience of diversity, equity, and inclusion issues that are at the intersection between workplace dynamics, education, scientific research, and multi-cultural conservation projects.

Starting Date: Preferred date Jan 2024. Negotiable within limits.

Position Type/Expected Hours of Work: This appointment is for three years. This is a full-time position that works up to 40 hrs per week and may require weekend and holiday work. A mixture of fieldwork, lab work, and administration is to be expected.

Supervisory Responsibility: Students, interns, and staff technicians may be the supervisory responsibility of this position. Mentorship is an important part of this position and should be expected. This may include supervision on zoo grounds or in the field.

Reporting Structure: This postdoc will report to and work closely with the Curator of Research, Dr. Sinlan Poo (spoo@memphiszoo.org).

Application webpage: http://shorturl.at/hmSU6 or see Memphis Zoo's career webpage.

Application Requirements: Application materials should include: - Cover letter (1 page max) - Research statement, including past achievements and future plans, and

— / —

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

MissouriBotanicalGarden PlantGenomics

Position Title: Postdoctoral Fellow (Genomic and phenotypic intraspecific diversity in ex situ plant collections)

Summary:—The Center for Conservation and Sustainable Development (CCSD) at the Missouri Botanical Garden (MBG) seeks to hire a full-time postdoctoral scholar to work in the Conservation Genetics Laboratory (Lead scientist, Dr. Christy Edwards) on an IMLS-funded project to investigate strategies to conserve intraspecific variation in ex situ collections of imperiled plants. The candidate will 1) collect and analyze data on neutral and adaptive variation, both in genomic and phenotypic traits, in ex situ collections of North American plant species of conservation concern; 2) analyze how to effectively and efficiently capture all forms of intraspecific variation in ex situ collections and assess whether tradeoffs exist that limit the ability to conserve all forms of variation, 3) assist MBG scientists with coordinating grant-funded activities including mentoring of students, organizing and participating in outreach events and workshops, and presenting lectures to professional organizations, and 4) prepare and submit manuscripts for publication. The successful candidate will work closely with MBG scientists active in conservation genetics, conservation biology, community ecology, and horticulture/living collections management and will also actively engage with collaborators and colleagues at MBG and in the broader St. Louis Ecology, Evolution, and Conservation community. This individual will conduct daily operations of assigned project or program without direct supervision. He/she will prepare scientific papers as leading author and also will interact with Garden staff and other collaborators to prepare collaborative scientific papers. The Postdoctoral Fellow will present lectures to professional organizations and broader audiences as appropriate. He/she may supervise graduate and undergraduate students, interns and volunteers.

The position will be based in St. Louis, where a vibrant community of ecologists, conservation practitioners, and evolutionary biologists interact through partnerships among MBG, Washington University, the University of Missouri-St. Louis, Saint Louis University, plus other area institutions. The position will be seated in the CCSD, which explores and implements new, science-based approaches to the conservation and sustainable use of plant diversity. CCSD's strategies for conservation are based on a sound, scientific understanding of the occurrence and distribution of plants. CCSD applies the knowledge of plant diversity accumulated by Missouri Botanical Garden researchers over many years, making that knowledge usable for conservation planning and decision-making. Operating under the auspices of the Garden and as part of its division of Science and Conservation, CCSD builds upon the Garden's institutional expertise, scientific programs, influence and resources.

Candidates should have completed a Ph.D. in Ecology and Evolutionary Biology, Botany, Genetics, Environmental Science, Conservation Biology, or a related field before the start date. The ideal candidate will have prior experience in several of the following: ex situ sampling techniques, plant propagation, plant phenotyping, quantitative genetics, high-throughput DNA sequencing approaches (i.e., rad-seq, genotyping-by-sequencing), bioinformatics, and statistical analysis of phenotypic or population genomic data. Candidates that have experience in landscape genomic data analysis are particularly encouraged to apply.

Review of applications will begin November 15, 2023 and will continue until the position is filled. Ideal start date

is early 2024 (Jan-April), but start date is negotiable. The term for this grant-funded position will be up to 2.5 years, with renewal in the 2nd year contingent on satisfactory performance. Salary will be commensurate with experience, and this position includes a comprehensive benefits package.

Please submit applications online at:—https://-us232.dayforcehcm.com/CandidatePortal/en-US/-MBG/Posting/View/2680 Please attach CV, cover letter, and contact information for three references.

For more information contact Christy Edwards at christy.edwards@mobot.org

Christine E. Edwards, PhD— Stephen and Camilla Brauer Conservation Geneticist— Center for Conservation and Sustainable Development— Missouri Botanical Garden—— 4344 Shaw Blvd. | St. Louis MO 63110— Office phone: 314-577-9457

"Christine.Edwards@mobot.org" <Christine.Edwards@mobot.org>

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Montpellier InvasiveFishPopulationGenomics

Postdoctoral fellow, 1 year, renewable, in population genomics of an invasive fish.

/Context:/

The GAMBOC project* investigates adaptation to multistress, especially pollution and salinity, in the invasive fish species /Gambusia holbrooki/ - the mosquitofish.

The GAMBOC project uses a multidisciplinary approach including fish biology, physiology and ecology, transcriptomics, population genomics, chemistry. The population genomic part of the project focuses on investigating the evolution of genomic mechanisms underlying local stress tolerance of mosquitofish to different levels of pollution and salinity encountered during its invasion of Europe. In order to perform genome scans looking for genomic footprints of selection induced by pollution, we first started whole genome re-sequencing of both individuals and pools of individuals for 17 populations that have also been characterized with physiological and ecological approaches. Additional European and US populations will be re-sequenced in 2024.

/Postdoctoral researcher tasks:/

The postdoctoral fellow will investigate the genomic mechanisms of tolerance of mosquitofish to different levels of pollution and salinity encountered during its invasion of Europe. Firstly, the postdoc will use Fst genome scans, selective sweep scans and gene-environment (pollution levels, salinity) association tests to detect genomic footprints of selection along the genome. Second, the postdoctoral researcher will analyze the demographic history of the invasion (e.g. inferring the strength and timing of bottlenecks, inbreeding loads, admixture events, gene flows) and assess its consequences for the adaptive responses of populations. The postdoctoral researcher will be in charge of the statistical analyses and of the valorization of the results through publications (in English).

/Collaboration and location: /

The successful candidate will work in collaboration with Charles Perrier and Arnaud Estoup. He/she will be based at the Centre of Biology for Population Management (CBGP**).

The postdoctoral researcher is also expected to work in close collaboration with Céline Reisser and Emilie Farcy (MARBEC laboratory, University of Montpellier).

The Centre for Biology and Population Management (CBGP) is part of Montpellier's scientific community in the field of evolutionary biology and population genomics. Montpellier is one of the world's leading hotspots for evolution and evolutionary and environmental research and has a vibrant research community with several hundred researchers in this field and highly acclaimed postgraduate programs. The University of Montpellier was ranked third in the Shanghai 2022 ranking in the field of ecology. Situated near the Mediterranean in the south of France, Montpellier offers pleasant weather, fantastic countryside and a great cultural and urban lifestyle.

/The candidate: /

PhD degree (preferably since < 2 years). Previous research experience in Population Genomics is expected, as well as excellent ability to write scientific papers in English.

/Working conditions:/

The contract should be for an initial period of one year (renewable), starting in early 2024 (exact date to be discussed).

INRAE*** will be the employing institute.

Remuneration will be calculated according to the scales established by INRAE.

/To apply:/

To apply, please send an e-mail to charles.perrier@inrae.fr together with a curriculum vitae and a letter outlining your motivation for applying.

< https://biodivoc.edu.umontpellier.fr/recherche/-projets-consortium/projet-de-consortium-gamboc/ >

< https://www6.montpellier.inrae.fr/cbgp_eng/-Scientific-production/Last-publications >

< https://jobs.inrae.fr/en/inrae-experience >

Arnaud ESTOUP <arnaud.estoup@inrae.fr>

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Nice France CoralPopulationGenomicsGWAS

**Dear all

Just a reminder that the applications for the junior post position at the Univerté Vôte d'Azur (Nice, France) on coral population genomics within the framework of the TARA Pacific research project are opened until the 31st of October 2023, at https://emploi.cnrs.fr/Offres/-CDD/UMR7284-DIDFOR-001/Default.aspx?lang=EN See below for the full description of the position,

Best regards,

Didier Forcioli

* *

Post-Doc in Population Genomics

Une image contenant nature, récif, fond marin Description générée automatiquement

A 12-month junior post-doctoral position is opening at the Institute of Cancer and Aging in Nice (IRCAN, Université Côte d'Azur, Nice, France). The position is opened within the framework of the TARA Pacific research project and funded by the ANR Grant "Coralforce" (ANR-22-CE20-0007-01).

*Project framework:*The main objective of the project is to investigate the implication of genome maintenance genes in the adaptation of reef-building corals to changing environments. This research program relies on the extensive Pacific wide reef samples from the TARA Pacific expedition centered on three coral genera (/Porites, Pocillopora/ and /Millepora/) (Planes et al. 2019 < http://dx.plos.org/10.1371/journal.pbio.3000483 >, see Planes & Allemand 2023 < https://www.nature.com/-articles/s41467-023-38896-6 >) for an overview of the already performed analyses). During the expedition, 2703 coral colonies have been sampled in 32 Pacific islands (Lombard et al. 2023 < https://www.nature.com/-articles/s41597-022-01757-w >). Metagenomic, Metatranscriptomic and Metabarcode sequences have been produced for 300 of these colonies per genera _(_Belser et al. 2023 < https://www.nature.com/articles/s41597-023-02204-0 >). As the TARA Pacific program also produced annotated reference genomes for the three genera sampled _(_Noel et al. 2023 < https://doi.org/10.1186/-s13059-023-02960-7 >), genome wide SNPs have been identified in each of these samples. Biochemical stress markers phenotypes have been measured for all the sampled colonies (Porro et al. 2023 < https://rdcu.be/-dlq0y >). Extensive historical and extemporaneous environmental quality measures were also associated to each sampling site (Lombard et al. 2023 < https://-www.nature.com/articles/s41597-022-01757-w >). The preliminary analysis of a third of the samples already allowed for the identification of different phenotypic and genetic signatures in relation to the environment among the three coral genera (Rouan et al. 2023 < https://-www.nature.com/articles/s41467-023-38499-1 >, Porro et al. 2023 < https://rdcu.be/dlq0y >, Voolstra et al. 2023 < https://rdcu.be/dgjO6 >). The recruited postdoctoral fellow will be in charge of identifying the genetic components of the coral response to the environment.

Scientific goal:The postdoctoral fellow will develop Genotype Environment Association (GEA) and Genomewide Association (GWAS) studies from these samples, with the aim of identifying SNPs (and the functional genes they belong to) that: 1) display different alleles in different environments, 2) are implicated in biochemical stress response phenotypes (such as ubiquitination, oxidative stress response, telomere length variation, etcÂ). Coupled to the genomic selection profiles, these results should allow for the identification of putative adaptive genes in these corals.

The postdoctoral fellow will develop his work in collaboration within the international TARA Pacific consortium, and under the direct supervision of Pr. Paola Furla and Dr. D. Forcioli. The work of the postdoctoral fellow will be part of the Adaptation &Resilience Workgroup currently coordinated by D. Forcioli within the TARA Pacific consortium, in interaction with the Coral Health workgroup of the consortium, to which P. Furla participates.

The postdoctoral fellow will directly collaborate with a

PhD currently in charge of the phenotypic analyses.

Candidate profile/Required skills:The successful postdoctoral fellow should have a solid background in population genomics, a proven ability to analyze NGS data. A previous experience in GEA and GWAS would be an

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Norway StatAnalysisAncientDNA

Postdoctoral Fellow in statistical palaeoecology for ancient DNA datasets

A Postdoctoral Research Fellow position is available at the Arctic University Museum of Norway < https://en.uit.no/tmu >, UiT. The position is a fixed term position for a duration of two years. You will conduct research as a part of the newly established Norwegian Centre for Arctic Ecosystem Genomics < https://uit.no/research/arcecogen > (ArcEcoGen) and will be part of a group working towards a better integration of paleoecological results with ecological questions about modern ecosystems and dynamics. Research at the ArcEcoGen focuses on the combined effect of humans, climate, and biota on northern ecosystem dynamics in the past, present, and future using environmental DNA (eDNA) techniques.

A large part of the work of the Aurora Centre uses ancient DNA of various groups of organisms retrieved from lake sediment data, a method that opens a radically new window into past ecosystems. This approach provides, however, data that is very different from modern data about ecosystem structure. The aim of the synthesis work package of the Aurora Centre is to progress towards integrating these results from past communities with contemporary ecological questions and environmental issues. Ultimately, we want to learn from the past to better understand the present and predict the future. The statistical treatment of the metabarcoding data, taking into account imperfect detection and different detectability between species and samples, is for instance a topic that has received some attention recently, but needs to be fully integrated in the lake sediment DNA reconstructions to make them more relevant for ecological questions. How can we for example estimate the probability that a species that is no longer detected has disappeared from the local ecosystem? And if this species is extinct, when did it disappear, and the uncertainty of the extinction date?

https://www.jobbnorge.no/en/available-jobs/job/249474/postdoctoral-fellow-in-statistical-palaeoecology-for-ancient-dna-datasets Best wishes, Inger

Inger Greve Alsos <inger.g.alsos@uit.no>

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Norwich UK EvolutionCellularHeterogeneity

A postdoctoral position is available at the Earlham Institute (Norwich UK) to study the implications of cellular heterogeneity across scales (individuals, tissues, single cells).

https://www.earlham.ac.uk/vacancy/postdoctoral-research-scientist-cellular-genomics During the lifetime of an organism individual cells will acquire both programmed and spontaneous mutations. Most studies have so far focused on the implications of those events in diseases such as cancer, however such events also occur during normal development and can be part of the response to environmental stress or adaptation. The rapid development of single cell approaches now enable the characterisation of the functional implications of cellular heterogeneity.

As part of the Institute Strategic Programme Cellular Genomics < https://www.earlham.ac.uk/cellular-genomics >, a highly collaborative project bringing together molecular biologists, computational biologists, and computer scientists, we are seeking an enthusiastic and ambitious Postdoctoral Research Scientist to undertake computational analysis of the functional implications of cellular heterogeneity in systems such as mouse and human cell lines.

The role:

The successful candidate will develop computational pipelines to reproducibly handle both publicly and newly produced single-cell data (genome, transcriptome, epigenome) to enable their integrations and interpretation. The candidate will investigate the implication of ploidy variation on gene and transcript expression

during cellular differentiation in both in-vitro and in-vivo models through the analysis of short and long-read sequencing single-cell data.

The project is led by Dr Wilfried Haerty < https://-www.earlham.ac.uk/profile/wilfried-haerty >, and the successful candidate will work closely with groups across the Institute (Dr Iain Macaulay < https://-www.earlham.ac.uk/profile/iain-macaulay >, Dr Edyta Wojtowicz < https://www.earlham.ac.uk/profile/edyta-wojtowicz >, Dr Conrad Nieduszynski < https://-www.earlham.ac.uk/profile/conrad-nieduszynski >) and with external collaborators.

At EI, the post holder will have access to cutting-edge high-performance computing facilities and expertise. They will join an active community of experimental and computational biologists working on a wide range of cellular genomics and single-cell analyses.

They will have the opportunity to contribute to other projects and the overall development and implementation of single-cell genomic approaches at EI.

The ideal candidate:

The successful applicant will have a PhD in bioinformatics, computational genomics or a related subject. They will have significant experience working with genomic/epigenomic/transcriptomic data, and experience with single-cell genomics analysis. The candidate should have a demonstrable working knowledge of programming languages such as Python, Perl, or R. it is advantageous if the post holder has experience with long-read sequencing.

Additional information:

Salary on appointment will be within the range 35,300 to 43,750 per annum depending on qualifications and experience.

This is a full-time post for a contract of 24 months.

As a Disability Confident employer, we guarantee to offer an interview to all disabled applicants who meet the essential criteria for this vacancy.

The closing date for applications will be 12 December 2023.

Wilfried Haerty Group Leader [signature_903465228] Norwich Research Park Norwich Norfolk NR4 7UZ +44 (0) 1603 450 974 wilfried.haerty@earlham.ac.uk www.earlham.ac.uk "Wilfried Haerty (EI)" <Wilfried.Haerty@earlham.ac.uk>

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Paris GeneticArchitecture

We offer a 20 months position, working as post-doctoral fellow to improve our ability to study the genetic architecture of complex traits. The candidate will join Pierre de Villemereuil's team, at the Institute for Systematics, Evolution, Biodiversity (ISYEB), locate within the Muséum National d'Histoire Naturelle (MNHN) in Paris. This position is funded as part of the EvoGenArch Tremplin ANR grant. The position starts on 2024-01-08.

Scientific context Most traits of ecological and evolutionary relevance are complex traits, i.e. influenced by a large number of loci (named Quantitative Trait Loci, or QTL) in the genomes. The features of the QTL are often referred to as the genetic architecture of the trait. One of the most important collective feature to characterise such architecture is the distribution of the effect sizes (i.e. the phenotypic impact of replacing one allele for the other) of QTL. Current methods allowing for the study of such distribution of effect sizes make the same core assumption: all QTL are a subset of the genetic markers (generally SNPs) available in the genome. However, QTL should come in all possible variety of genetic variants. This distinction between markers and QTL is generally not problematic if the aim is to locate a region of interest in the genome, or perform genomic predictions. However, if the goal is to infer the distribution of effect sizes from an evolutionary perspective, this distinction between markers and QTL becomes highly important. Indeed, if many, or most, markers are only linked to causal QTL, then the amount of linkage disequilibrium between each QTL and the markers will distort the inferred distribution of effect sizes. If we want to have a chance to empirically test the evolutionary predictions from the theoretical models, it is thus necessary to evaluate the breadth of the issue and work toward solutions.

Job description The job will be mostly computational, based on data simulation, statistical inference and statistical modelling. Under the supervision of Pierre de Villemereuil, the candidate will have two missions: - Task 1 (10 months): Perform simulations to evaluate the amount of distortion generated by linkage disequilibrium in a scenario where QTL are not a mere subset of the available markers, by comparing theoretical, known distribution of effect sizes and the ones yielded by sate-of-the-art methods in such scenario. - Task 2 (10 months): Evaluate a solution for a statistical method that would

distinguish between markers and QTL.

Requirements and profile - PhD in evolutionary biology, genomics, bioinformatics or related fields. - Track record of research activity and academic output (publications, conference communications, etc.). - Demonstrated ability to work as part of a scientific team, take on research tasks - Experience in and interest for computational biology, including e.g. data simulation in genomics or empirical statistical genetics. - Technical skills in R, Python or Julia are a requirement. - Background in even basic quantitative genetics will be highly appreciated.

Hosting lab & team Pierre de Villemereuil's research focuses on the genetics of adaptation, trying to understand how the levels of the genotype, phenotype and environment interacts to drive evolution in wild populations, notably in response to anthropic pressures. A combination of evolutionary ecology, quantitative genetics, population genomics and statistical modelling is necessary to unveil the patterns and processes of adaptation in the wild. The Institute for Systematics, Evolution, Biodiversity (ISYEB), located in the beautiful Jardin des Plantes of the Muséum National d'Histoire Naturelle in Paris, is one of the largest labs studying evolution in the city. ISYEB hosts worldwide leading science in evolution, systematics, phylogeny, genomics and ecology.

Application Please send a CV/résumé, a short letter of application and a letter of recommendation or contact details of past supervisors to the address pierre.devillemereuil@ephe.psl.eu before 2023-11-10. A shortlist of candidates will be auditioned during the weeks following this deadline.

Pierre de Villemereuil <pierre.devillemereuil@ephe.psl.eu>

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Paris GlobalOceanBiodiversityModelling

A postdoctoral position is available to work in Hélène Morlon's group at the Ecole Normale Supérieure in Paris, in collaboration with Dr. Ben Ward (University of Southampton) and Prof Daniele Iudicone (Stazione Zoologica Anton Dohrn, Naples). The post-doctoral project is part of the pan-European project BIOcean5D investigating marine biodiversity across multiple scales and disciplines, supported by a four-year grant from the European Union.

The successful candidate will develop a spatially explicit model for the build-up of biological diversity in the oceans. The objective is to get an accurate representation of how ocean circulation patterns, population sizes and mutation rates interact to regulate the balance between diversity gain and loss in the global ocean. Applicants with various backgrounds are encouraged to apply. We will particularly appreciate keen interest or experience in modelling biodiversity over deep times scales, (phylo)genetics, and physical and biological (paleo)oceanography. Applicants should have solid quantitative and programming skills, as well as good writing skills. Speaking French is not mandatory.

The postdoctoral researcher will work in Hélène Morlon's group at the Institute of Biology of the Ecole Normale Supérieure. The IBENS is a multidisciplinary research centre in Biology with more than 300 staff members, conveniently located in the Latin Quarter in downtown Paris. The centre develops research in a wide range of disciplines, including evolutionary biology, ecology, computational biology, genetics, and comparative genomics.

Review of applications begins immediately and will continue until the position is filled. Starting dates are flexible and salaries depend on experience. To apply, please submit: i) a cover letter summarizing research interests and expertise ii) a Curriculum Vitae (including publications), and iii) the names and contact information for at least two references. Questions and application should be sent to Hélène Morlon (morlon@biologie.ens.fr).

helene.morlon@bio.ens.psl.eu

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Prague Two EvolutionaryGenomicsPolyploidy

TWO ERC/ERC-CZ postdoc positions focussing on the structural and evolutionary genomics of polyploidy with Levi Yant and Filip Koláø

Start: Jan 2024 (negotiable) Duration: 2 years, minimum Place: Charles University, Prague, Czech Republic, EU Groups: https://www.yantlab.net/ and https://-www.plantecologicalgenomics.cz/ Both researchers will be members of both the Yant and Koláø labs, which constitute a dynamic, interdisciplinary team focused on the consequences of whole genome duplication. Position 1 is primarily with Yant and position 2 primarily with Koláø.

POSITION 1: Yant group We seek a motivated early career researcher interested in leading a research project as part of a wider programme broadly focused on addressing the polyploid paradox: what is the basis for the occasionally spectacular success of polyploids, against all odds?

The role is primarily computational/bioinformatic, but with optional field and wet lab components. You will have access to novel, very large-scale long-read-based population genomic data of various multiple-ploidy species. You will be formally a member of Prof Levi Yant's group, which is based in both Prague, CZ, and Nottingham, UK, and be fully integrated in the Plant Ecological Genomics group led by Filip Koláø. This role is based in vibrant Prague and integrated into a fantastic network of local and international collaborators.

We offer: - Great science AND a competitive salary, well-exceeding the average for Prague - A dynamic international science environment, located in an inspiring historical city centre. -Involvement with and growth opportunities with many worldwide collaborations

Requirements: - A passion for polyploids. Also, a strong interest in leading independent projects in a collaborative group -Experience in handling large-scale (preferably long-read) sequence data - A strong background in any kind of genomics or genome bioinformatics (PhD or computational MSc required)

Optional: - Participation in teaching relevant courses and co-supervision of PhD students/junior researchers -Develop your independent research programme. - Application for additional projects (e.g. Marie Curie, EMBO, NERC, Leverhulme) is highly supported.

Project details Whole genome duplication (WGD) occurs in all kingdoms and can promote adaptation. But WGD is traumatic to the cell, and commonly fatal for lineages. In autopolyploids (within-species WGD), sudden duplication of all chromosomes disrupts core processes, especially meiosis. Nevertheless, the rare hopeful monster that survives WGD is somehow special, occasionally experiencing runaway success. This gives rise to a 'polyploid paradox': WGD-mediated adaptability for some, despite challenges to core processes. Our work revealed the basis of adaptation to WGD with nimble, convergent evolution at WGD of genome management and DNA repair. Importantly, these processes likely affect genomic structural variation (SV) in young polyploids.

Here we leverage our discovery to ask a new question: is the post-WGD shakeup the stumbling process of adaptation to WGD itself the key engine for later evolutionary success? What are the exact mechanisms? That is, might WGD-mediated adaptability be grounded in adaptation to the very challenges WGD presents? Specifically, we test our hypothesis: is the (mis)management of core processes like DNA repair a key missed piece in the century-long quest to understand polyploid adaptation?

We test our hypothesis using SV-focussed graphical pangenomics on manipulated diversity in evolve-and-resequence studies, using lines harboring specific candidate alleles from successful autopolyploids vs diploid alleles. I predict these candidates differentially regulate DNA repair, ion homeostasis, and stress response changes at WGD, boosting diversity at WGD and thus, adaptability. We assess functional consequences of these 'allelic shakeups' upon WGD in models spanning kingdoms, life history types, and genome diversity. Given the importance of WGD in processes ranging from crop resilience to cancer progression, by testing our hypothesis in a wide range of models in parallel, we aim to gain insight into this century-old mystery.

POSITION 2: Koláø group We seek a highly motivated, independent early career researcher interested in leading a research program within the context of a Starting ERC project. The projects addresses the evolutionary consequences of whole genome duplication through analysis of using available population genomic data of multiple naturally polyploid plant species (for details see below). The successful candidate will join the team of Ecological Genomics at Charles University in Prague lead by Filip Koláø and will be integrated into a broad network of local and international collaborators.

Requirements

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PrincetonU EvolutionAvianVision

The Department of Ecology and Evolutionary Biology at Princeton University invites applications for one or more postdoctoral research associates (or more senior research positions) to work in the Stoddard Lab. The Stoddard Lab uses an interdisciplinary approach to study animal coloration and morphology, with a focus on birds and bird eggs. For recent examples of research conducted by the Stoddard Lab, visit www.marycstoddard.com. Potential projects are briefly described below.

1) Development and genetics of structural plumage color (including iridescent color). We seek applicants with a strong background in development (evo-devo, transmission electron microscopy, melanosomes), physics (soft matter, self-assembly, optical modeling) and/or genetics, transcriptomics and genomics.

2) Building new software tools for visualizing 2D and 3D imaging data (at a variety of spatial scales) from the perspective of birds and other animals. We seek applicants with an interest in sensory ecology and a strong background in scientific imaging, virtual reality, animation, drone imaging and/or remote sensing.

3) Evolution of avian cone opsins and oil droplets. We seek applicants with a strong background in comparative genomics/transcriptomics.

4) Dynamics of hummingbird-plant interactions. We seek applicants with a strong background in community ecology, statistical modeling, deep learning/computer vision, time-lapse cameras and hummingbird behavior.

Required qualifications:

* A PhD in biology, genetics, physics, computer science or a related field * A very strong quantitative background, including statistics and computer programming * Excellent written and oral communication skills, shown by a strong publication record and presentations at conferences * Excellent organizational, project management, data analysis and data management skills * A strong interest in conducting interdisciplinary work as part of a collaborative team * A strong interest in mentoring undergraduate and graduate students and broadening participation in STEM

The appointment is initially for one year, with the possibility of renewal based on satisfactory performance and funding. Salary is competitive and commensurate with experience, and benefits are included. This position will be open until filled, with initial review of applications starting December 2023 and January 2024. This position is subject to the University's background check policy.

Applicants must apply online at https://-www.princeton.edu/acad-positions/position/28921. Please include a cover letter that provides an overview of your research experiences and explains which of the above project(s) most interest you and why. In your cover letter, please provide the name and contact information for three references. Please also include your curriculum vitae, which should include a list of your publications.

Princeton University is an Equal Opportunity/Affirmative Action Employer and all qualified applicants will receive consideration for employment without regard to age, race, color, religion, sex, sexual orientation, gender identity or expression, national origin, disability status, protected veteran status, or any other characteristic protected by law. EEO IS THE LAW.

"Mary C. Stoddard" <mstoddard@princeton.edu>

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SanDiego NHM AncientMammals

Applications are invited for a Postdoctoral Fellowship position in the Department of Paleontology at the San Diego Natural History Museum (SDNHM). The James R. Colclough Paleontology Postdoctoral Fellowship supports research in Cenozoic mammalian paleontology and taphonomy. The Fellowship was created to honor the memory of James R. Colclough, longtime volunteer in the Department of Paleontology, and is funded by the James R. Colclough Paleontology Endowment.

OBJECTIVE: The Fellowship is designed to advance the academic and professional training of the next generation of vertebrate paleontologists and taphonomists by providing them with the funding and facilities to pursue specific, time-limited research projects in association with Museum scientists and utilizing vertebrate fossil specimens and data housed in the SDNHM Department

of Paleontology.

RESPONSIBILITIES: Duties will include conducting original research in Cenozoic mammalian paleontology and taphonomy, providing research assistance to the Curator of Paleontology, and introducing new technologies and analytical methods into the Museum setting. Postdoctoral Fellows are expected to be in residence at SDNHM full time and actively engaged in the SDNHM community. The position will include opportunities for interactions with colleagues at nearby San Diego State University, University of California San Diego, and University of San Diego.

QUALIFICATIONS: To be considered for this position, applicants must have received a PhD degree within the past six (6) years. Soon-to-graduate PhDs may apply, but all formal requirements for a PhD must be completed before the start of the appointment.

This is a full-time, position with benefits such as health insurance, vacation, 15 paid holidays, reciprocal free admission to all of Balboa Park's museums, as well as to the San Diego Zoo and Safari Park.

COMPENSATION: Annual compensation is $64,480, plus fringe benefits. Supplemental research funds also may be available. Appointments will typically be made for two years contingent on satisfactory progress in year one.

STARTING DATE: May 1, 2024 (an earlier start date is possible)

TO APPLY: Applicants should submit a cover letter (1-2 pages), a succinct statement (~700 words) detailing current work and research interests, an up to date curriculum vitae, a list of any publications, and the names and contact information for two professional references.

Please submit materials to tdemere@sdnhm.org by December 22, 2023.

Tom Demï¿½rï¿½, Ph.D. Curator, Department of Paleontology Director, Department of PaleoServices

If we seem busy, it's because we have millions of years of work to do. Find out what we're up to.

P 619.255.0232 C 619.540.1870 F 619.232.0187 E tdemere@sdnhm.org

Mailing address: P.O. Box 121390, San Diego, CA 92112-1390 Street address: 1788 El Prado, San Diego, CA 92101

Tom Demere <tdemere@sdnhm.org>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

SBIMB SouthAfrica CancerGenomics

Vacancy: Post-doctoral Fellow in Cancer Genomics

Research host: Professor Christopher Mathew, Sydney Brenner Institute for Molecular Bioscience (SBIMB), University of the Witwatersrand

Job Purpose Summary:

Contribute towards the aims and objectives of the project "Genetic risk factors for breast cancer in South Africa: A discovery, testing and counselling pathway". This will involve the analysis of rare variant DNA sequence data in cases and controls and contributing to the analysis of genome-wide genotype data and tumor sequence data. The research fellow will also contribute to the preparation of manuscripts for publication and supervision of a postgraduate student.

Key Responsibilities and Accountabilities:

* Development of statistical genomics approaches for African population cancer genomic data, and data analysis.

* Participate in ongoing genomic studies for the cancer genomics research group.

* Work with the cancer genomics research group on developing study strategies, methods, and designs.

* Build and sustain partnerships with research collaborators.

* Lead and/or contribute to drafting manuscripts for peer-reviewed publications and research reports.

* Publicize research findings through conference presentations.

* Ensure that Wits publication policy is adhered to and that the relevant funders are acknowledged.

* Contribute to research grant development and writing proposals for funding opportunities.

* Contribute to capacity development by supervising and co- supervising postgraduate students at the SBIMB.

* Contribute to leading a multidisciplinary research team.

* Attend relevant SBIMB activities (e.g., workshops, seminars, journal club)

Terms and conditions:

The appointment is for a three-year duration, Projected commencement date is 02 January 2024. The postdoctoral fellowship comes with a competitive remuneration and benefits package.

Eligibility Criteria and Attributes:

* PhD graduate within the last 5 years

* Data analysis and management experience is required and experience in conducting systematic reviews is advantageous.

* Interest in applying big data analytics in healthcare.

* Available to start fellowship within the first quarter of 2024.

Please email your application as follows:

* Your CV (maximum of 5 pages)

* A cover letter (maximum of 2 pages) indicating how your knowledge and skills would align with the research areas, and what your expectations are, should you be successful.

* Academic record/transcript and certificate of all completed degrees

* ID/Passport copy

* Contact details for three academic referees.

Submit to: sbimb@wits.ac.za and cc jocelyn.gayenga@wits.ac.za.

For technical information contact carl.chen@wits.ac.za and chris.g.mathew@wits.ac.za

Deadline: 20 November 2023, although applications will also be considered beyond this if suitable candidates have not been identified.

The principal investigators reserve the right not to make an appointment if suitable candidates are not identified.

Dr Jean-Tristan Brandenburg, PhD

Researcher | Sydney Brenner Institute for Molecular Bioscience (SBIMB)

E: jean-tristan.brandenburg@wits.ac.za T: +27 11 717 6393 <tel:+27%2011%20717%206393> M: +27 76 234 1357 <orcid.org/0000-0003-0197-2648> W : www.wits.ac.za/research/sbimb/ < http://-za07.rocketseed.com/rs/a0GvdNHB >

ORCiD <orcid.org/0000-0003-0197-2648>

LinkedIn < https://www.linkedin.com/in/-brandenburgj/ >

SBIMB, The Mount, First Floor, Office 106,

9 Jubilee Road, Parktown, Johannesburg, South Africa

jean-tristan Brandenburg <jean-tristan.brandenburg@wits.ac.za>

SmithCollege MA MicroeukaryoteBioinformatics

Colleagues,

I am looking for a postdoc to join my group, mainly to focus on bioinformatic analyses of data from diverse microbial eukaryotes. I'd be grateful if you would forward this ad on to anyone who might be interested.

Thanks! Laura

***

Postdoctoral Position: Bioinformatic and single-cell 'omics approaches for studying genome evolution in microbial eukaryotes

The Department of Biological Sciences at Smith College invites applications for a benefits eligible postdoctoral position, focusing on genome evolution in microeukaryotes (aka protists), to begin on or after January 1, 2023. The bulk of the work will focus on bioinformatic analyses of data generated in the lab from amoebae and ciliates. The initial appointment is for one year, with the possibility of extending for additional years. The position will be housed in Professor Laura Katz's laboratory in the Department of Biological Sciences ; questions should be directed tolkatz@smith.edu.

The goals of this research include characterizing genome architecture in poorly-studied clades and reconstructing the evolutionary history of both genes and species (i.e. species delimitation). The ideal candidate will: 1) be a productive researcher with interests in both biodiversity and phylogenomics of microorganisms; 2) have experience identifying and isolating diverse protists; 3) have knowledge of bioinformatic and/or phylogenetic tools; 3) have excellent communication and interpersonal skills; and 4) be interested in collaborating with graduate and undergraduate students in the laboratory.

Research in the Katz lab aims to elucidate principles of the evolution in eukaryotes through analyses of microbial groups, and to assess how these principles apply (or fail to apply) to other organisms. Currently we focus on three interrelated areas: (1) characterizing evolutionary relationships among eukaryotes using single-cell

'omics' and phylogenomics; (2) exploring the evolution of germline vs somatic genomes; and (3) describing the phylogeography and biodiversity of protists in local environments (bogs, fens, coastal habitats).

Located in Northampton, MA, Smith College is the largest women's college in the country and is dedicated to excellence in teaching and research across the liberal arts. The College is a member of the Five College Consortium with Amherst, Hampshire and Mt. Holyoke Colleges, and the University of Massachusetts Amherst and students cross-enroll and faculty cross-teach across the Five Colleges.

Submit application through Smith's employment website with a cover letter, curriculum vitae, sample publications and the contact information for three confidential references. Finalists may be asked for additional materials. Review of applications will begin on November 1, 2023.

Laura A. Katz,Elsie Damon Simonds Professor Editor in Chief,Genome Biology and Evolution

Department of Biological Sciences Burton Hall 201 / 44 College Lane

Smith College Northampton, MA 01063 Ph: 413-585-3825 Zoom: https://smith.zoom.us/my/laurakatz Laura Katz <lkatz@smith.edu>

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TexasAMU BehavioralPlasticity

Postdoctoral position available at the Behavioral Plasticity Research Institute (https://behavioralplasticity.org/-).

A postdoctoral position is available in the Department of Entomology at Texas A&M University, College Station, TX, USA. The position is part of the Behavioral Plasticity Research Institute (BPRI), one of the U.S. National Science Foundation's Biology Integration Institutes.

The BPRI focuses on understanding locust phase polyphenism, one of the most striking examples of coordinated phenotypic plasticity. This phenomenon provides a powerful comparative system for understanding how gene expression patterns and epigenetic regulation are linked to shifts in behavior, physiology, and ecology that result in outbreaks, collective movement, and mass migration. The BPRI is established to comprehensively dissect this phenomenon and use it as a model system to transform the study of phenotypic plasticity. With a commitment to improving diversity, inclusion and equity, the BPRI will train the next generation of integrative biologists who can efficiently navigate across different disciplines.

The vision of the BPRI is predicated on integration through collaboration. We recognize the scientific and societal impacts are maximized when groups of people with diverse backgrounds and experiences come together to work towards shared goals and the common good. This philosophy will inform all BPRI activities.

This position offers a unique opportunity for an integrative biologist to acquire diverse skills across different biological disciplines. The successful candidate will conduct research focused on understanding locust phase polyphenism, one of the most striking examples of coordinated phenotypic plasticity. This position will closely interact with all members of the BPRI across multiple member institutions while based in the home laboratory at Texas A&M University. Duties will include generating and analyzing genomic/transcriptome data along with performing insect behavior, nutritional physiology and related experiments. Assisting in the supervision of graduate and undergraduate students will allow for an even broader exposure to hands-on, guided mentoring experiences in genetics, behavior and ecology. The position will be co-supervised by Entomology faculty members Drs. Hojun Song, Spence Behmer, and Greg Sword. We are especially interested in candidates who can contribute to the BPRI's diversity through their scholarship and service. Women, minorities, people with disabilities, and veterans are encouraged to apply.

About the Community Texas A&M University main campus is located in College Station, which is part of a metropolitan community of over 200,000 people, including the city of Bryan. In addition to excellent health, education, and recreation services, the community affords a rich variety of cultural activities typical of a major university environment, including museums, music, art, and theatre. College Station is within easy reach of some of the most cosmopolitan cities in the US - about 90 minutes from Houston and its major international airport, and under 2 hours from Austin. The Department of Entomology (https://entomology.tamu.edu/) at Texas A&M University is one of the top entomology departments in the United States. Additionally, the interdisciplinary program in Ecology and Evolutionary Biology (https://eeb.tamu.edu/) provides an excellent opportunity to interact with a large community of ecologists and evolutionary biologists across different departments and colleges.

Please apply at: https://-tamus.wd1.myworkdayjobs.com/-AgriLife_Research_External/job/College-Station-TX/Postdoctoral-Research-Associate_R-066337 Hojun Song, Ph.D. Professor Department of Entomology Ecology & Evolutionary Biology IDP Texas A&M University College Station, TX 77843-2475 Office: 979-845-2481 Hojun.Song@ag.tamu.edu | schistocerca.org/SongLab BPRI: behavioralplasticity.org To schedule a meeting, please use: calendly.com/hojun_song [signature_77302646]

Hojun Song <Hojun.Song@ag.tamu.edu>

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UBari EvolutionaryTranslationalGenetics

PostDoc:UniversityofBari.Evolutionary_TranslationalGenetics

12 months Post-Graduate Post-Doc position at the Department of Biosciences, Biotechnology and Environment of the University of Bari. The minimum requirement is an MSc degree or equivalent in scientific subjects, a PhD will be considered as a plus.

The project aims to characterise the genetic architecture of addiction and related traits, also from an evolutionary perspective, through the analysis of 2000+ genetic data with associated life history info for all the participants. Part of the project will consist in characterising the evolutionary and adaptation history of the considered population with commonly used population/evolutionary genetics approaches.

Please send your CV by the 15th of November.

More info is available at: https://-www.anthropopgen.it/call-for-interest-bari For any inquiries, please contact Francesco Montinaro at francesco.montinaro@gmail.com

Start date: Jan/Mar 2024 Salary: ~1,500 euro after all income taxes (Bari is a very affordable city if compared with other parts of Italy)

Francesco Montinaro <francesco.montinaro@gmail.com>

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UBourgogne PlantMicrobiome

2-years Postdoc opportunity “Composition, structure and heritability of communities of root and rhizospheric microorganisms associated with Pisum spp”.

Location: Université de Bourgogne (University of Burgundy), INRAE, Pôle LEGae, ECP team, Dijon, FRANCE

Research focus: Grain legumes and their nitrogen-fixing symbiotic partners contribute to fixing the equivalent of approximately Â$\frac{1}{4}$ of the nitrogen inputs applied annually to global agriculture.Pisumgenotype-microbial community associations specific to physiological needs and to a compartment (rhizosphere, nodules or root endosphere) is of major interest for the development of protein crops in the context of the agroecological transition. The objectives of this research are (1) the identification of microbial communities’ profiles specific to certain pea varieties depending on the physiological stage and testing their effects on growth and yield, and (2) the quantification of the degree of heritability of the communities over several generations to determine the roles of host plant genotypes and/or microorganism composition and abundance. Ultimately, the identification of favorable and heritable microbial functionalities during the pea development cycle could make it possible to associate communities of microorganisms with yield variables, and to be able to explore the feasibility of isolation and cultivation in order to test synthetic inocula in the field.

Responsibilities: Monitoring greenhouse experiments, development of bioinformatic pipelines for statistical analyses in microbial community ecology and plant phenotype data, 16S rRNA gene PACBIO sequencing analyses. Attending international conferences and writing scientific publications in peer-reviewed journals.

Qualifications: PhD in agronomy, plant genetics or microbiology gained after the 1st of January 2021. Candidates are expected to have a background in statistical methods, bioinformatics, genomics and/or ecophysiology. A good track record of publications according to their scientific experience since their PhD is expected. Experience with community ecology statistics and molecular bioinformatics in R and/or Python would be highly desirable.Fluency in French is not required

Salary and appointment: 2 years full-time appointment,

with a starting date in January 2024. Salary commensurate with experience (1 923 euro - 2,264 euro net monthly salary + benefits).

Application procedures: Submit the following materials to Dr. Yanis Bouchenak-Khelladi (yanis.bouchenak-khelladi@inrae.fr)

1.A cover letter describing previous research experience and qualification for this position along with you current and future research interests (2-3 pages)

2.Current CV

3.Contact information for 3 referees

Review of applications will begin on November 15th 2024 and continue until the position is filled. Feel free to email Dr. Yanis Bouchenak-Khelladi if you have any questions about this position.

Dr. Yanis Bouchenak-Khelladi Junior Professor Université de Bourgogne Dijon, France yanis.bouchenak-khelladi@inrae.fr

Yanis BOUCHENAK-KHELLADI <Habib-Yanis.Bouchenak-Khelladi@u-bourgogne.fr>

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UCalifornia LosAngeles CaliforniaConservationBiology

The 2024 UCLA La Kretz Center Postdoctoral Fellowship in California Conservation Science

The UCLA La Kretz Center for California Conservation Science invites applications for its 2024 Postdoctoral Fellowship in California Conservation Science. We seek to hire one or more postdoctoral scholars who conduct innovative biological research at the interface of applied and basic science. Our long-term goal is to help fund a cadre of innovative young scientists who will work closely with UCLA faculty, help broaden the mission of conservation science for the campus, and lead to long-term collaborations between our academic scientists and applied conservation partners that will direct and lead California conservation efforts.

Candidates may work in any discipline that provides the scientific underpinnings for the preservation, protection, management, or restoration of at-risk species, environments, or ecological communities in California. Current and past La Kretz Postdocs have worked on a wide variety of research topics, ranging from urban biodiversity and evolutionary adaptation, to wildfire management and conservation, to the interface of conservation and animal behavior; we are open to work in any California ecosystem or group of organisms, as long as the research is innovative, creative, and has clear practical significance. An important new initiative, the California Conservation Genomics Project (CCGP), is a large, multi-campus initiative led by the La Kretz Center that is delivering genomic resources to California decision-makers to enhance species and habitat management, and candidates may seek to build off of that project in the realm of conservation genomics. For a full description of past fellows and their work, please visit us at https://-www.ioes.ucla.edu/lakretz/our-work/fellowships/ . Fellows must have both an on-campus UCLA mentor, and an off-campus, non-university mentor. The on-campus UCLA mentor must also be a La Kretz Center affiliate. A list of applicable affiliates is available at https://-www.ioes.ucla.edu/lakretz/people/. The Fellow is expected to work closely with their identified UCLA mentor and one or more off-campus agency partner(s) in developing their project. All applications should include a letter (which may be brief) from each mentor stating their support for the project, what they can contribute to it, and how it fits into their work in conservation biology. Applications that do not include these letters of support will be considered incomplete and ineligible for consideration. Projects that bring co-funding, from mentors or other agencies or individuals, are always encouraged, but co-funding is not a requirement. Off-campus mentors may be drawn from any California agency or NGO, including federal and state groups. A partial list of some of our active partners and contact people includes:

The Nature Conservancy: Sophie Parker

Natural History Museum of Los Angeles County: Jann Vendetti

US Geological Survey: Robert Fisher

US Bureau of Land Management: Mike Westphal

US Fish and Wildlife Service: Cat Darst

Natural Communities Coalition: James Sulentich/Danny L. Fry

National Park Service: Katy Delaney

National Park Service: Seth Riley

Department of Defense: Robert Lovich

The La Kretz Fellowship is for two years, subject to review after the first year. The target start date is September 2024, and is flexible. The position offers a competitive salary, full benefits, and a research/travel

allowance of $7500. Candidates who have recently completed their Ph.D. or will have completed it by August 2024 are encouraged to apply.

To apply, please send applications to lakretz@ioes.ucla.edu as a single PDF file that includes:

(i) A brief cover letter introducing yourself and your project. (ii) Your full CV (iii) A research and management accomplishments statement (maximum one page) (iv) A project proposal that lays out, in some detail, your project, including motivation, methods, expected outcomes/results, why this work is important to academic and applied audiences, and how it integrates with the research of your mentors (maximum three pages, including figures and references). (v) A letter of support (which may be brief) from your on-campus UCLA mentor and your off-campus agency/NGO mentor. (vi) Two of your relevant publications. (vii) Two letters of reference sent, one of which should be from your Ph.D. advisor (these are in addition to the letters from your proposed mentors).

Please arrange to have reference letters emailed to the same address with the subject line "La Kretz Postdoc letter for (your last name)".

The deadline for completed applications is November 26th, 2023.

Please email all questions to Brad Shaffer, Director of the La Kretz Center, at brad.shaffer@ucla.edu.

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UCalifornia SanDiego FishEvolution

The Fish Evolution Lab at U.C. San Diego's Scripps Institution of Oceanography (https://scripps.ucsd.edu) seeks applicants for a 2-year postdoctoral research position. This role is part of a fully funded NSF project focused on conducting comparative genomic analyses using chromosome level and shotgun genomes to investigate the mechanisms of phenotypic and genome evolution in a primarily marine fish clade (Tetraodontiformes). The project will integrate additional data layers such as fossils, CT scans, and ecological information. Specific topics include exploring the relationship between genome size and morphological evolution and understanding the implications of genome reduction on species diversification. The postdoc will work under the supervision of Dr. Dahiana Arcila. For more information on ongoing research in the Fish Evolution Lab, see: https://www.fishphylogeny.org/home . Title of Position: Postdoctoral Scholar - Employee

School or Division: Scripps Institution of Oceanography/Marine Biology Research Division

Funding & Appointment Details: The position is fully funded, with an initial 24-month appointment, with the possibility of further extension. The position remains open until filled.

Eligibility: Applicants must hold a Ph.D. (or be close to completion) in Genetics, Genomics, Biology, Computer Science, or a related field. The ideal candidate will possess strong computational skills with experience in comparative genomics using chromosome level or shotgun genomes.

Application Process: Interested candidates should submit the following documents, consolidated into a single PDF, to Dr. Arcila at dkarcila@ucsd.edu:

1.Cover letter detailing your interest in the position and your qualifications.

2.Curriculum Vitae (CV).

3.Statement of research/career goals.

4.Names and contact information of at least three references (e.g., advisor(s), thesis committee members).

Review of applications will begin immediately.

Dahiana Arcila <dkarcila@ucsd.edu>

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UExeter EvolutionaryEcology

3-year Postdoc position in Evolutionary Ecology, University of Exeter, UK

We are seeking a Postdoctoral Research Fellow with experience in evolutionary, behavioural or molecular ecology to participate in a NERC-funded research project to investigate processes that contribute to the maintenance of genetic variation in disease susceptibility

in natural populations. Using a wild rodent (Myodes glareolus) as a model, the project investigates the importance of pathogen-specificity and immunopathology in mediating costs of resistance, and tests if the fitness consequences of balanced genetic polymorphisms are context-dependent. The project combines monitoring and sampling of wild populations, with experiments in outdoor enclosures and in captivity. It integrates a range of -omics, ecophysiological, quantitative genetic and statistical approaches and tools. The postdoc will be responsible for the planning of the project, data collection and data analysis, with the support of associated researchers and technicians. Specific activities will include field data collection, bioinformatics analyses, statistical analyses, assessing, interpreting and evaluating outcomes of research, preparing manuscripts for publication, science communication and public outreach. While the postholder is expected to already have some of the skills required for the work, they will be able to obtain training in areas where they lack experience. The project team includes Dr Barbara Tschirren (PI), Dr Xav Harrison, Prof Erik Postma (University of Exeter, UK), Prof Lars RÃ¥berg (Lund University, Sweden), Prof Tapio Mappes and Prof Phill Watts (University of Jyväskylä, Finland). Extended visits to Scandinavian field sites are planned for data collection and engagement with international collaborators.

The successful applicant possesses a relevant PhD (or nearing completion) or equivalent qualification/experience in evolutionary, behavioural or molecular ecology or a related field. They are able to work collaboratively, have excellent organisational ability, are willing to supervise the work of others and act as team leader, and have excellent quantitative skills and fieldwork experience. The 3-year post is available starting by 1st May 2024 in the in the Centre for Ecology and Conservation at the University of Exeter's Cornwall campus, United Kingdom (https://-ecologyconservation.exeter.ac.uk/), which provides an environment that is outstanding on a world-scale for conducting research in ecology and evolution (11th ranked ecology department globally, 2021 Shanghai University Rankings) with exceptional strengths in evolutionary biology, behavioural ecology and disease ecology. The successful applicant will have the opportunity to develop and enhance the skills required for a successful research career. They will be encouraged to take advantage of the many training courses available at Exeter in areas such as research skills, project management and leadership. The starting salary will be from 41,732, depending on qualifications and experience.

The closing date for completed applications is 20th November 2023. Applications should be submitted via https://jobs.exeter.ac.uk/hrpr_webrecruitment/-wrd/run/ETREC107GF.open?VACANCY_ID=-569798gdCd&WVID=3817591jNg&LANG=USA Please ensure you read the full person specification for the role (attachment JD89846.pdf on the left side of the job ad page).

For further information please contact Dr Barbara Tschirren by e-mail (b.tschirren@exeter.ac.uk).

"Tschirren, Barbara" <B.Tschirren@exeter.ac.uk>

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UHelsinki Three EvolPlantMicrobeInteractions

3 Post-doc positions in Ecology, evolution and statistical analysis of plant-microbe interactions

Information and link to apply: https://jobs.helsinki.fi/-job/Helsinki-3-Post-doc-positions-in-Ecology%2C-evolution-and-statistical-analysis-of-plant-microbe-interactions/781231102/ The Research Group of Prof. Anna-Liisa Laine seeks three post doctoral researchers for an ERC funded Advanced Grant project "Coevolutionary consequences of biodiversity change; Co-EvoChange" at the University of Helsinki, Finland. The main aim of the project is to uncover how human-imposed disturbance in plant communities affects the ecology and evolution of plant-microbe interactions both above- and below ground, and how these changes scale up to ecosystem processes.

A post-doctoral researcher for a three-year position in plant-microbe interactions

We are seeking a postdoctoral researcher to study how microbial diversity and the ecological and evolutionary dynamics of above-ground plant-microbe interactions are altered following disturbance in wild plant communities. The planned work consists of survey and sampling of natural plant-microbe communities with known history of change, utilizing sequencing approached to characterize microbial communities, and field transplant as well as controlled experiments to identify key drivers of plant-microbe interactions at the community level under different disturbance scenarios. The selected candidate is expected to take part in designing their project and take full responsibility for its' implementation from data collection to presentation of results in both scientific journals and conferences. Opportunities for professional

development, e.g. in project management, leadership, mentoring, teaching and grant writing, are available and encouraged.

Postdoctoral position requirements:

* The successful applicant should have a doctoral degree in plant ecology, plant biology, plant pathology, microbial ecology or similar * Previous experience working with questions and methods related to plant microbiome diversity, and the ecology and evolution of plant- microbe interactions * Analytical knowledge: Expertise in analyzing microbial community data - both bioinformatics and statistical inference - is considered an advantage * Excellent written and verbal communication skills * Ability to conceive, execute and complete research projects * Ability to think independently and creatively * Ability to work in a team and independently

A post-doctoral researcher for a three-year position in soil microbial ecology

We are seeking a postdoctoral researcher to study how microbial diversity and the ecological and evolutionary dynamics of below-ground plant-microbe interactions are altered following disturbance in wild plant communities. We are also interested in how altered plant-microbe associations translate to soil ecosystem processes such as decomposition, microbial community growth and carbon use efficiency. The planned work consists of survey and sampling of natural plant-microbe communities with known history of change, utilizing sequencing approached to characterize microbial communities, and field transplant as well as controlled experiments to identify key drivers of plant-microbe interactions at the community level under different disturbance scenarios. The selected candidate is expected to take part in designing their project and take full responsibility for its' implementation from data collection to presentation of results in both scientific journals and conferences. Opportunities for professional development, e.g. in project management, leadership, mentoring, teaching and grant writing, are available and encouraged.

Postdoctoral position requirements:

* The successful applicant should have a doctoral degree in soil microbial ecology or similar * Previous experience working with questions and methods related to microbial diversity and soil ecosystem processes * Analytical knowledge: Expertise in analyzing microbial community data - both bioinformatics and statistical inference - is considered an advantage * Excellent written and verbal communication skills * Ability to conceive, execute and complete research projects * Ability to think independently and creatively * Ability to work in a team and independently

A post-doctoral researcher for a three-year position in ecological statistics

We are seeking a postdoctoral researcher to study how microbial diversity and the ecological and evolutionary dynamics of plant-microbe interactions are altered following disturbance in wild plants communities. We will use a complementary analytical toolbox to identify how sensitive contemporary

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UHouston AmphibianEcoEvolution

Postdoctoral Researcher Position in Eco-Evolution and Physiology of Salt Tolerance in Coastal Amphibians

The Albecker Lab at the University of Houston is seeking a Postdoctoral Researcher to join our research team. The post-doc will conduct field, lab, and molecular research to advance our understanding of how coastal amphibian species respond to rising sea levels.

Responsibilities: The successful candidate will play a key role in designing and conducting experiments aimed at investigating the mechanisms underlying salt tolerance in amphibians inhabiting coastal environments. Responsibilities will include conducting fieldwork in Houston, TX and Sapelo Island, GA, performing bench work, analyzing diverse datasets, and contributing to manuscript preparation. The Postdoctoral Researcher will collaborate with the lab members, fostering a cooperative and intellectually stimulating research environment. University of Houston has a strong research presence in Houston and there are many opportunities for interaction and collaboration both there and in the greater Houston/Galveston area.

Qualifications: - A Ph.D. in Biology, Ecology, Physiology, Zoology, or a related field. - Background with physiological methods and/or ecological fieldwork. - Proficiency in statistical analysis - Excellent communication skills, both written and oral, for effective collaboration and dissemination of research findings. - Demonstrated track record of scientific productivity, evidenced by peer-reviewed publications. - Ability to work independently while contributing effectively to a research team.

Compensation: The annual salary for this position is approximately $48000-50,000, commensurate with qualifications and experience. Additionally, the University of Houston offers a comprehensive benefits package, including health insurance and access to research resources.

Application Process: Interested candidates should submit a cover letter detailing their research experience and future interests, a CV, and contact information for three professional references. Please email your application materials as a single PDF file to {maalbecker@uh.edu} with the subject line "Postdoc Application ??? [FirstName_LastName]".

Deadline: Applications will be accepted until November 1, 2023. Review of applications will begin immediately and continue until the position is filled. The anticipated start date for this position is January 2024.

Join us in our investigation of how coastal amphibians tolerate salt and help advance our understanding of how they adapt to challenging environments. The University of Houston is an Equal Opportunity/Affirmative Action institution. Minorities, women, veterans and persons with disabilities are encouraged to apply. Additionally, the University prohibits discrimination in employment on the basis of sexual orientation, gender identity or gender expression.

"maalbeck@central.uh.edu"
<maalbeck@central.uh.edu>

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ULincoln UK EvolutionKatydidAcoustics

Post-Doctoral Research Associate in Numerical Modelling Location: Lincoln Salary: From 37,099 per annum Fixed Term for 36 months and Full time at 1.0 FTE Closing Date: Thursday 09 November 2023 Interview Date: Friday 24 November 2023 Reference: CHS040

Are you an experienced Post-Doctoral Research Associate (PDRA), with research profiles in engineering, physics, or mathematics? If so, this could be the post for you.

We are looking for a PDRA to join the Bioacoustics and Sensory Biology Lab, in the School of Life and Environmental Sciences. This post is funded by a Leverhulme Trust Award entitled 'Biophysical and ecological function of microscale ears using scaled 3D prints'. By intersecting engineering, mathematics, neuro- and comparative biological approaches, this interdisciplinary project is designed to unveil mechanical and biophysical adaptations of the katydid ears using living and fossilised specimens.

As a creative and motivated researcher with experience in numerical modelling, you will be expected to drive the experimental studies required to develop predictive evolutionary models of the micro-scale Ensifera (crickets and katydids) hearing process. There will be an opportunity for training inÂμ-CT scanning, 3D reconstruction, and 3D printing.

You will have the opportunity to help write and publish high quality peer-reviewed scientific papers, in addition to contributing to the development of research proposals and identification of routes for further bioinspiration. You will contribute to the dissemination of the results to the scientific community through presentation at international conferences and workshops, and to the general public through public lectures and interviews with the media, where appropriate.

You will also have full responsibility for the practical coordination of experiments in living forms (e.g. Laser) and micro-CT protocols, and for driving iterative exchanges with results from other lab members, as well as responsibility for updating the ethics and health and safety protocols.

This exciting opportunity is full-time and fixed term for 36 months, with excellent opportunities for ongoing career development and progression. If you would like to know more about this opportunity, please contact Prof. Fernando Montealegre-Z, Professor of Sensory Biology, atfmontealegrez@lincoln.ac.uk.

Apply online

Post-Doctoral Research Associate in Sensory Biology Location: Lincoln Salary: From 37,099 per annum Fixed Term for 12 months and Full Time 1.0 FTE Closing Date: Thursday 09 November 2023 Interview Date: Friday 24 November 2023 Reference: CHS041

Are you an experienced Post-Doctoral Research Associate (PDRA), with research profiles in biology, specifically in neurosciences or sensory systems? If so, this could be the post for you.

We are looking for a PDRA to join the Bioacoustics and Sensory Biology Lab, in the School of Life and Environmental Sciences. You will be part of a new interdisciplinary research group with the freedom to work on an exciting project for an extended period. The post is funded by an Leverhulme Trust grant awarded to the

Professor of Sensory Biology, entitled 'Biophysical and ecological function of microscale ears using scaled 3D prints'.

By intersecting engineering, mathematics, evolution/ecology, and neuro- and comparative biological approaches, this interdisciplinary project is designed to unveil mechanical and biophysical adaptations of the katydid ears using living and fossilised specimens.

This project will involve the use of Laser Doppler Vibrometry, and will interrogate two major objectives: 1) to use 3D ear models for experimental simulations to investigate the geometry-based biophysics of the ears of both living and fossil katydid, and 2) to understand the evolution of ear pinnae and EC adaptations in insects through time using auditory neural responses.

The sensory biology lab offers a dynamic research environment and facilities, and you will have the opportunity to be a member of a multi-disciplinary group working closely together on a defined problem, applying techniques from fields as diverse as acoustics, electro-physiology, hearing, applied mathematics, and biophysics.

This exciting opportunity is full-time and fixed term for 12 months (with the possibility of an extension), and with excellent opportunities for ongoing career development and progression. If you would like to know more about this opportunity, please contact Prof. Fernando Montealegre-Z, Professor of Sensory Biology, atfmontealegrez@lincoln.ac.uk.

Apply online

Situated in the heart of a historic city on the beautiful Brayford Pool Waterfront, the University of Lincoln is proud of its reputation for putting students at the heart of everything it does. We are listed in the world's top 150 universities in the Times Higher Education's (THE) Young University Rankings 2023, and hold a top five-star score overall in the QS Stars rating system of global universities.

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UManchester BacterialEvolution

A postdoctoral position is available in the group of Mato Lagator at the University of Manchester, UK. Initial appointment is for 2 years.

About the project: One of the biggest outstanding problems in biology is how we can predict evolution. This interdisciplinary project will combine the tools and techniques of molecular and synthetic biology with biophysics to study how the existing molecular mechanisms in bacterial cells determine evolution. Understanding this relationship will allow us to predict the effects of mutations, and hence improve our ability to predict evolution.

This is particularly important when it comes to understanding and predicting the evolution of antibiotic resistance - one of the most important examples of how evolution affects human lives today, already causing over 50,000 deaths per year in the EU alone, in addition to dramatically extending hospital stays and increasing health care costs. In order to tackle this problem, we need to develop predictive approaches that will help us not only extend the usefulness of existing antibiotics, but also inform the development of longer-lasting novel drugs.

The aim of this project is to improve our ability to predict multi-drug resistance evolution by understanding how the existing molecular mechanisms in the cell determine evolution. This project will involve constructing synthetic gene regulatory networks and experimentally probing them by introducing mutations into promoters and transcription factors that control the expression of multi-drug resistance pump, AcrAB-TolC. We aim to understand how biophysical mechanisms determine the effects of mutations in transcription factors and promoters, and hence how they drive resistance evolution. This project will dramatically improve our ability to predict antibiotic resistance evolution.

The specific aims of this project are flexible and can develop in many directions, reflecting postdoc's interests and expertise. An ideal candidate will have a collaborative spirit and independent drive, and will be encouraged to develop their own ideas and approaches.

For more information, and to apply, please visit https://www.jobs.manchester.ac.uk/Job/-JobDetail?isPreview=Yes&jobid=27198&advert=-

external If you would like to discuss any aspects of the project, position or the environment, please do not hesitate to contact Mato at Mato.Lagator@manchester.ac.uk

Mato Lagator <mato.lagator@manchester.ac.uk>

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UmeaU HorizontalGeneTransfer

Hello, I have a multi-postdoc hire with many different possible projects including the role of horizontal gene transfer in the evolution of gene regulation.

“UmeÃ¥ University is currently running the ”Excellence by Choice“ Postdoctoral Programme in Life Science research to train outstanding young researchers and stimulate cutting-edge research. As a collaboration between the two national Centres of Excellence - UmeÃ¥ Centre for Microbial Research (UCMR) and UmeÃ¥ Plant Science Centre (UPSC) - the programme aims to encourage new synergies in Life Science with a focus on molecular and translational research and to strengthen world-class research activities in UmeÃ¥. Patron for the programme is Nobel laureate Emmanuelle Charpentier, who discovered the CRISPR-Cas9 gene editing technology during her time as a scientist and group leader in UmeÃ¥.

In this call, several fellowships are open for outstanding postdoctoral candidates interested to do research in the highly interactive and multidisciplinary research environments of UCMR and UPSC. In the scope of the ”Excellence by Choice“ Postdoctoral Programme, we aim to recruit up to six postdoctoral scientists in this round.

We invite people to consider one of the projects listed here (https://www.umu.se/en/ucmr/ec-postdoc-programme/excellence-by-choice-postdoctoral-programme-in-life-science/) and apply. The deadline is October 29, 2023.

In particular we would like to draw people’s attention to a postdoc opportunity with Peter Lind and Eric Libby. The project looks at how horizontal gene transfer affects genetic regulation in microbial communities. We are looking for someone with a background in microbial evolution or modeling who is interested in building theoretical/mathematical models to explore this fascinating topic. Please contact us if you are interested or have any questions: Peter Lind (peter.lind@umu.se) and Eric Libby (eric.libby@umu.se). ”

Thanks, Eric

Eric Libby <eric.libby@umu.se>

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UMiami EndophyteAngiospermBiodiversity

Postdoctoral Position Investigating Effects of Fungal Symbioses on Angiosperm Niche Breadth and Diversification (Afkhami and Searcy Labs, Univ. of Miami, Miami, FL)

Drs. Michelle Afkhami and Christopher Searcy are hiring a co-advised postdoctoral scholar at University of Miami to investigate the role of fungal seed endophytes in angiosperm evolution, including expansion of climatic niche breadth and elevation of diversification rates. This project is funded by an NSF Dimensions of Biodiversity grant and integrates phylogenetic comparative methods, DNA barcoding of international seed depositories, and ecological niche modeling to understand how fungal seed endophytes have shaped the evolution of flowering plants. We are also excited for the postdoctoral scholar to bring their own perspective to the system and work with us to develop new ideas to pursue.

The postdoc will be mentored by Dr. Chris Searcy on ecological niche modeling and by Dr. Michelle Afkhami on the ecology of fungal seed endophytes in order to integrate these fields with phylogenetic comparative methods and will have the opportunity to mentor undergraduate and graduate students, work with collaborators at University of Kentucky, University of Michigan and the USDA, and publish manuscripts as lead author. This research will be done primarily at University of Miami with potential trips to visit collaborating labs.

Candidates must have a Ph.D. in a relevant field (e.g., ecology, evolution, population biology, plant biology), strong quantitative/statistical skills, a track record of peer-reviewed publications, and interest in contributing to an inclusive work environment. Other qualifications include a strong work ethic, problem-solving and time management skills, independent research experience, and experience with or an interest in phylogenetic comparative methods. Preferred qualifications include

experience studying symbiotic relationships.

This is a 2-2.5 year position with an ideal start date of January 2024 (flexible start dates throughout Spring 2024). Postdoctoral researchers at University of Miami (UM) are fully benefited employees with UM health insurance/dental/vision, life insurance, retirement program, annual leave, etc. (i.e., same benefits plans as faculty). Salaries for postdoctoral researchers have been standardized at UM based on years of experience and exceed current NIH standardized postdoc salaries (current UM starting salaries range from $57,300-$68,604 depending on years of postdoctoral experience). Afkhami and Searcy labs also provide additional professional development benefits to postdoctoral researchers (e.g., funding to attend conferences to network and share science, etc.). The Afkhami and Searcy labs are committed to promoting diversity, equity, and inclusion in their groups and more broadly in science and academia. We especially encourage candidates that identify as part of historically underrepresented groups in STEM to apply.

Interested applicants should send CV (including contact information for 3 references) and a brief cover letter describing previous experience and fit for the position to Dr. Michelle Afkhami (michelle.afkhami@miami.edu). Please also feel free contact her with any questions about the position. Review of applications will begin on November 1, 2023 and will continue until the position is filled. Feel free to reach out to Dr. Afkhami (email above) with any questions.

To learn more check out https://-michelleafkhami.wordpress.com/join-the-lab/ and/or some of our recent publications from past Afkhami and Searcy lab postdocs (**) and grad students (*) on related topics

Revillini, D.**, A.S. David**, A. Reyes, L.D. Knecht, C. Vigo, P. Allen, C. Vigo, C.A. Searcy, & M.E. Afkhami. (2023) Allelopathy-selected microbiomes mitigate chemical inhibition of plant performance.* New Phytologist. * doi.org/10.1111/nph.19249

Revillini, D**, A.S. David**, K. Main, E.S. Menges, M.E. Afkhami & C.A. Searcy. (2022) Microbiome-mediated response to pulse fire disturbance outweighs the effects of fire legacy on plant performance. *New Phytologist.* 233: 2071-2082. *(Cover Art) *

Hernandez, D.J.*, A.S. David**, E.S. Menges, C.A. Searcy & M.E. Afkhami. (2021) Environmental stress destabilizes microbial networks. *The ISME Journal*. *doi: 10.1038/s41396-020-00882-x* (*357 citations,* Selected for ???Celebrating 15 Years of the ISME Journal??? Collection, which recognizes the most cited paper from each year)

David, A.S.**, K.B. Thapa-Magar, E.S. Menges, C.A. Searcy & M.E. Afkhami*. *(2020) Do plant-microbe interactions support the Stress Gradient Hypothesis? *Ecology. *101(8): e03081.10.1002/ecy.3081

David, A.S.**, P.F. Quintana-Ascencio, E.S. Menges, K.B. Thapa-Magar, M.E. Afkhami & C.A. Searcy. (2019) Soil microbiomes underlie population persistence of an endangered plant species. *American Naturalist. *194: 488-94.

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UNaples PlantEvolution

Postdoctoral position at the Dept. of Biology of University of Naples Federico II (Italy), on the project "Parallel adaptation of plants to URBAN POLLinators (URBANPOLL)"

A two-year postdoctoral position investigating pollinator-mediated selection and local adaptation in urban and natural populations of generalist plant speciesis available at the Department of Biology of University of Naples Federico II. This position will foresee floral trait phenotyping, reproductive success estimation, selection analysis in wild and experimental populations (common garden/transplantings) aimed at documenting parallel local adaptation of plants to urban pollinator communities. Experimental activities will be performed in Naples and in other Mediterranean Southern Italian urban areas.

I am searching for a postdoctoral researcher with a strong background in field experiments, plant reproductive biology and natural selection studies through plant phenotyping.

The research team is based at UNIVERSITY FEDERICO II located in Naples, a lively city in Southern Italy surrounded by many outstanding sites (Sorrento, Amalfi coast, Capri, Pompei and many other).

To apply, please send an email to Giovanni Scopece (giovanni.scopece@unina.it) with a full CV, a cover letter and the names and contact information of two references. Informal inquiries are also encouraged. Applications will

be reviewed on an ongoing basis until the position is filled.

Initial date January 2024

Contact: Giovanni Scopece, PhD Department of Biology, University of Naples Federico II Complesso Universitario di MSA Via Cinthia, 80126, Napoli, Italia Building 7, room 0D-31 (room) Building 7, room 0D-32 (lab) Phone:+39-081679048 Fax:+39-081679233

Giovanni Scopece <giovanni.scopece@unina.it>

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

UOslo SticklebackEvolutionaryGenomics

A 24-month full-time postdoc position is available in The Centre for Ecological and Evolutionary Synthesis (CEES), University of Oslo to work with PI Andrew Foote on the ERC-funded project EXPLOAD. The project uses threespine stickleback in post-glacial isolation lakes as a model system for studying adaptive potential, mutation load and the efficacy of selection in small populations.

The postdoc will primarily perform evolutionary genomics combining contemporary and paleo-genomic datasets of threespine sticklebacks (e.g. see Kirch et al. Current Biology https://doi.org/10.1016/-j.cub.2021.02.027), comprising approximately 1,000 contemporary genomes from isolation lake, fjord and river populations. Genomes from different selective regimes will be compared to infer the relationship between demographic histories, mutation load, and distribution of fitness effects, and the impact of each on effective migration rates across the genome.

There will also be the opportunity to participate in fieldwork, which will involve sampling sticklebacks from locations spanning the length of Norway, often in remote locations. Encounters with moose and reindeer are not uncommon! An additional outcome of fieldwork is a plan for scientific communication outreach through an educational short film on the evolutionary processes being studied by the project.

Hypotheses based upon findings from population comparisons will be explicitly tested using both in silico simulation experiments (using SLiM), and through captive breeding experiments. The postdoc should have a strong background in bioinformatics and will be expected to contribute towards these two objectives.

The postdoc will have the opportunity to work with a PhD student to contribute to the paleogenomic component of the project, which includes tracking adaptive genomic changes through time using sedDNA time-series datasets spanning marine-freshwater transitions.

Lastly, the project includes funding for the postdoc to present at international conferences, i.e. ESEB, Evolution, SMBE.

Please pass this on to anyone you think might be interested in your labs/networks.

Feel free to reach out if you have any questions (andrew.foote@ibv.uio.no).

Applications and job posting are through the jobnorge portal:

https://www.jobbnorge.no/en/available-jobs/job/-251372/postdoctoral-research-fellow-in-evolutionary-biology Salary: 575,400 - 657,300 NOK (approx 50,000 euros) per annum, depending on experience.

Starting date: no later than 01 April 2024/as soon as possible.

Application Deadline is 3rd November 2023

Andy Foote (andrew.foote@ibv.uio.no)

Andrew Foote <andrew.foote@ibv.uio.no>

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

UOttawa AmphibianConservationGenomics

Postdoctoral Researcher Ecological and conservation genomics of amphibians

The Lee-Yaw lab at the University of Ottawa is seeking a highly motivated individual who is interested in working at the intersection of evolutionary ecology and conservation biology to join our team as a post-doctoral researcher.

The opportunity:

This position involves analyzing a large ddRAD dataset to address several questions in evolutionary ecology and conservation genomics using salamanders as a study system. This dataset was generated with four specific

studies in mind. The successful candidate is expected to help complete the analyses required to move these studies to publication. As sequences are already in house, this position offers opportunities to complete projects and submit papers relatively quickly. Research in the lab is more generally focused on the evolutionary ecology of species' distributions and applying insights gained from genomic data to conservation. There are opportunities to develop additional research projects within these themes as funding and time permit. The postdoc will also have opportunities to collaborate on other systems with students and other researchers associated with the lab.

Visit the lab website for more information about the research group: www.leeyawlab.ca Qualifications:

* A PhD in biology, ideally with a focus on ecology, conservation, or evolution. * Experience working with reduced representation sequencing data and software (iPyrad, STACKS), or equivalent experience with related genomic datasets and methods. * A solid understanding of population genetics as used in molecular ecology and conservation biology. * A demonstrated track record of scientific productivity as evidenced through peer-reviewed publications. * Excellent communication skills and a motivation to publish. * Ability to work independently and to contribute to the mentorship of junior students.

We value diversity and are committed to advancing equity and inclusion in academia. All qualified candidates are welcome to apply, and I particularly welcome applications from members of historically underserved groups in ecology, evolution, and conservation.

Compensation:

Salary starts at $50,000 CAD and will be commensurate with qualifications and experience. The position is guaranteed for 1 year with opportunities for renewal depending on satisfactory progress. I am also happy to work with candidates to develop applications for external funding, which can provide a significant financial boost.

Start date:

The position will ideally start in January 2024, but a later start (within limits) is possible.

To apply:

Applications will be accepted until November 30, 2023 and reviewed as received until the position is filled. Send your CV and a cover letter outlining how your research interests and qualifications align with the position to jleeyaw <at>uottawa.ca.

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 leeyawlab.ca

Julie Lee-Yaw <jleeyaw@uottawa.ca>

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UppsalaU Genomics

Researcher in population genomics Uppsala University, Department of Ecology and Genetics

A 1-year position as a researcher in population genomics is available at the Department of Ecology and Genetics, Program in Plant Ecology and Evolution.

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. Learn more at www.ieg.uu.se . Project description

Until recently tree breeding in Scandinavia had relied on two species, Scots pine and Norway spruce. There is today a strong will to increase the number of species that are genetically improved and birch is one of the main species of interest. Within the framework of a newly funded center of competence we are currently building the tools to implement genomic selection in birch. Within this framework we have now resequenced the full genome around 600 birch trees along two parallel lines in Sweden as well as in populations across Europe and in sibling species, mainly Betula pubescens.

The candidate will help with the population genetic analysis of these data and focus more specifically on the Distribution of Fitness Effects and on the estimation of the deleterious mutations. While the project focuses on the diploid species Betula pendula, there will also be also possibility to extend the analyses to the polyploid species, Betula pubescens.

Duties

Bioinformatics, population genetics analyses, computer simulations. The candidate will be responsible for the bioinformatics analysis of existing sequence data, for their population genetics analysis, and for writing and publishing articles.

Qualifications required

PhD degree or a foreign degree equivalent to a PhD

degree in population genomics or more broadly in evolutionary biology. Candidates must be able to express themselves fluently in spoken as well as written English. We attach great importance to personal qualities such as ability to work in a group.

Qualifications desired

Good proficiency in programming (bash, Python, R) and/or statistical and modelling skills will be highly valued.

About the employment

The position is fixed-term until 2024-12-31. Scope of employment: full-time. Starting date as agreed.

Location: Uppsala.

For further information about the position, please contact

Professor Martin Lascoux, Martin.Lascoux@ebc.uu.se.

Application instructions

The application should include 1) a letter of intent describing yourself, your research interests and motivation of why you want to work as a postdoctoral researcher/fellow and why you are suitable for the position, 2) a CV 3) a short description of your education, 4) a copy of your PhD degree, your grades and a copy of your thesis, 5) name and contact information to at least two reference persons (e-mail address and phone no.), 6) relevant publications. The application should be written in English.

You are welcome to submit your application no later than November 14, 2023. UFV-PA 2023/3878.

Reference number UFV-PA 2023/3878

Link to ad http://uu.varbi.com/what:job/jobID:670959 Martin Lascoux Department of Ecology and Genetics EBC, Uppsala University Norbyvï¿½gen 18D 75236 Uppsala Sweden Tel +46 (0) 18 471 64 16 Fax +46 (0) 18 471 64 57 https://lascouxlab.wordpress.com Nï¿½r du har kontakt med oss pï¿½ Uppsala universitet med e-post sï¿½ innebï¿½r det att vi behandlar dina personuppgifter. Fï¿½r att lï¿½sa mer om hur vi gï¿½r det kan du lï¿½sa hï¿½r: http://www.uu.se/om-uu/-dataskydd-personuppgifter/ E-mailing Uppsala University means that we will process your personal data. For more information on how this is performed, please read here: http://www.uu.se/en/about-uu/data-protection-policy Martin Lascoux <martin.lascoux@ebc.uu.se>

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URochester AmphibianImmuneEvolution

Postdoctoral Position in the Jumping Frog Lab

A postdoctoral position is available in the laboratory of Dr. Jacques Robert in the department of Microbiology and Immunology, University of Rochester NY < https://www.urmc.rochester.edu/labs/robert.aspx >, to join a cohesive, dynamic and interactive research team studying the evolution and development of innate T cells in diverse amphibian species with distinct life histories, including data from wild-caught populations and experimental infections. The NSF-funded project involves genomics, transcriptomics, bioinformatic analyses and reverse genetic approaches (CRISPR/Cas9 genome editing and RNA interference by transgenesis). The candidate will have the opportunity to be involved in the supervision of graduate and undergraduate students. While the position is based at URMC, the postdoc will be co-mentored by Dr. Anna Savage at the University of Central Florida, with opportunity for training and collaborative exchanges.

Qualifications: Candidates should have a Ph.D. in the fields of molecular biology, evolutionary biology, bioinformatics, or immunology. Preference will be given to highly motivated, innovative, and interactive applicants with strong background in molecular biology, who published a first-author paper as a result of their graduate work. Experience working with RNAseq data and/or Oxford Nanopore sequence data is a plus.

Salary is commensurate with qualifications and will be equal to or exceed NIH NRSA Postdoctoral Stipends. We anticipate an annual salary range between $55,341 - $63,852. Interested candidates may send their CV, list of publications and three references to Jacques Robert (Jacques_Robert@URMC.Rochester.edu). Position will remain open until filled.

The University of Rochester is committed to fostering and supporting a workplace culture inclusive of people regardless of their race, ethnicity, national origin, gender, gender identity, sexual orientation, socio-economic status, marital status, age, physical abilities, political affiliation, religious beliefs or any other non-merit fact, so that all feel included, equally valued and supported. The University of Rochester is responsive to the needs of Dual Career Couples/EOE Minorities/Females/Protected Veter-

ans/Disabled

Anna Savage <Anna.Savage@ucf.edu>

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USDA Arizona FungalGenomicsTranscriptomics

An ORISE Postdoctoral Fellowship is available to work in the U.D. Department of Agriculture-Agricultural Research Service's Aflatoxin Biocontrol lab in Tucson, Arizona, USA. Initial appointment is for 1 year and will be extendable.

Project: Aflatoxin, a mycotoxin produced by Aspergillus flavus and its close relatives, contaminates food grown in warm regions and can lead to liver cancer, immune system and growth suppression, and death. The Tucson Aflatoxin Biocontrol lab studies ways to improve aflatoxin biocontrol through selection of non-aflatoxigenic A. flavus isolates that possess genetic and genomic traits associated with decreased crop aflatoxin contamination, which may be due to competitive ability or aflatoxin degradation. The participant will cooperatively design and conduct experiments using genomics and transcriptomics to understand degradation pathways of aflatoxin in non-aflatoxigenic A. flavus isolates with the end goal of producing more effective biocontrol products. Additionally, the participant will cooperatively design and conduct experiments to better understand competition between A. flavus and other aflatoxin producing and non-aflatoxin producing species in Aspergillus section Flavi.

Eligibility: Participant should have (or be close to finishing) a Ph.D. which includes genomic or transcriptomic analysis. Knowledge of mycology or plant pathology is helpful but not required.

Application process: Applications should be made through ORISE's Zintellect platform: https://-www.zintellect.com/Opportunity/Details/USDA-ARS-PW-2023-0419 Kenneth Callicott, Ph.D. Research Molecular Biologist USDA-Agricultural Research Service

Ken.Callicott@usda.gov Office: (520) 301-6887

"Callicott, Ken - REE-ARS" <ken.callicott@usda.gov>

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USouthernCalifornia CoralGenomics

Hi All -

Im looking to fill a postdoc position starting in ˜January and Id be grateful if you could share the following ad with prospective applicants. We will begin to review applications starting November 10 - the application portal can be accessed here: https://-/usccareers.usc.edu/job/los-angeles/postdoctoral-scholar-research-associate/1209/55866379152 A postdoctoral position in conservation genomics is available in The Cnidarian Evolutionary Ecology (CEE) Lab < https://dornsife.usc.edu/carlslab/ > at the University of Southern California. The successful applicant will lead analyses of whole genome sequence data from endangered Acropora cervicornis coral to assess population structure, demographic history, and associations with environmental and trait data. This project is part of an NSF-funded collaboration < https://www.nsf.gov/awardsearch/-showAward?AWD_ID=2023705 > between USC, the Universities of South Florida and Miami, the Shedd Aquarium, and the Perry Institute for Marine science to understand how interactions between genetics and environment influence coral performance and thermal resilience providing ample opportunities for networking and career development. There will also be latitude to develop additional projects within the broader theme of this work based on the candidates interests.

As an employee of USC, you will be a part of a world-class research university and a member of the Trojan Family, which is comprised of the faculty, students and staff that make the university a great place to work. USC has a central Los Angeles location with easy access to commuter trains, buses and free tram pick up services; discounts to sporting and other campus events.

This is a full-time position, the initial appointment will be for a 6-month probationary period, after which a one-year reappointment is possible for successful and productive candidates with the potential for additional extensions, pending submission and approval of a supplemental funding request. Applications will be reviewed starting November 10, please submit your materials by this date for priority consideration. Desired start date is mid-January 2024.

The CEE Lab values inclusion and encourages applications from diverse applicants. We define diversity as peo-

ple of different backgrounds, races, nationalities, genders, sexual orientations, beliefs, religions, socio-economic statuses, and more, and inclusivity as an approach where we respect, welcome, encourage, and engage diverse perspectives. Our strength and success as a research group, department, and university, is built on the foundation of a wide range of perspectives and experiences.

Responsibilities:

Research and communication (70%)

* Evaluate population structure and demography and generate haplotype reference panel using high coverage (~50x) genomes from 37 A. cervicornis genotypes sampled from sites throughout the Caribbean * Analyze shallow whole genome sequencing data for an additional ~400 genotypes of A. cervicornis from throughout the Florida Keys and Dry Tortugas for population structure and environmental and thermal tolerance trait associations. * Generate reproducible work-flows and protocols and maintain them in publicly available repositories * Report results in the form of scholarly manuscripts and presentations at conferences and other research and applied forums to disseminate findings to the broader community of scientists and restoration practitioners. * Conduct occasional fieldwork to procure specimens and support related lab research aims as relevant/desired

Professional development: (15%)

* Develop skills and expertise by participating in laboratory and group meetings and undertake further training as required * Pursue additional research opportunities consistent with ultimate career goals * Build positive relationships with partner organizations in order to exchange information and translate results for reef restoration applications

Mentorship and engagement (15%)

* Supervising and training graduate and undergraduate students in population genomic analyses * Contribute to shared lab duties on a rotational basis

Preferred Qualifications - items are essential (E) or desirable (D)

Knowledge and experience

* PhD in relevant discipline (genomics, ecology/evolution, organismal biology or similar) (E) * Knowledge of population genomics (E) * Proven experience analyzing genomic data (E) * Prior experience with analysis of whole genome data (D) * Knowledge of coral reef ecosystems (D)

Skills and abilities

— / —

Villefranche-sur-mer CoralAdaptation

Postdoc position for studying coral adaptation/acclimatization to sub-optimal environmental conditions

Context: The relentless increase in human activity on the planet is causing profound changes to coral reefs worldwide. Yet, some reefs already exposed to sub-optimal environmental conditions seem to show that acclimatization mechanisms are possible in corals. The present project aims to study natural populations of coral communities living under sub-optimal environmental conditions (low light levels, acidified water, warmer temperatures, deoxygenation and/or more variable conditions), which in some cases are comparable to or even exceed the forecasts for the end of the century. These populations may be locally adapted to their environment, and could be a source of resistant larvae for adjacent reefs. Alternatively, these populations may demonstrate that some corals are able to acclimatize to such environmental conditions, with no specific selective filter during larval recruitment.

Objectives: the project focus on three “natural laboratories” in which natural populations of corals have been sampled: (a) a severely light-limited environment in La Reunion Island, (b) an environment characterized by abnormally high and variable temperature regimes in French Polynesia, and (c) an environment combining several sub-optimal environmental parameters (low pH, high temperature and low oxygen levels) in New Caledonia. In each of these, for two selected coral species, the specific objectives are to determine whether these species are genetically selected and/or genetically connected to neighbouring reefs. The goal is therefore to explore possible differentiations in their genomes in relation to these sub-optimal environments and deduce connectivity (or a lack of) between contrasting environments.

Your job: construct ddRad libraries to be sequenced for 20 coral colonies per species per environment (reference site vs. sub-optimal reef site) per natural laboratory (240 individuals in total), analyse raw data and write scientific publications.

Location: The one-year postdoctoral position is a French contract of the Institut de Recherche pour le Développement (IRD). The candidate will work in collaboration with several researchers from ENTROPIE (https://umr-entropie.ird.nc/index.php/home) and CRIOBE (https://www.criobe.pf/), partners on this project. The candidate will be based at the Laboratoire Oceanographique de Villefranche (LOV, https://lov.imev-mer.fr/web/), in the beautiful city of Villefranche-sur-mer (next to Nice, south of France).

About the position: Full-time position for one year starting between January 2024 and March 2024 at the latest. Work location is Villefranche-sur-mer (South of France) with possible missions to Perpignan (south of France). The salary is according to the IRD rules.

Your qualifications

degree (preferably since < 2 years) with expertise in molecular ecology; ability to work abroad in an international and multidisciplinary research environment.

with ddRadSeq (both lab work and data analysis); experience with population connectivity would be an advantage.

*Your application: *If you are interested, please send a detailed CV and reference letters by email to cecile.fauvelot@ird.fr. The application deadline is 31/10/2023 and it will be extended if necessary.**

Dr. Cécile FAUVELOT Institut de Recherche pour le Développement (IRD) UMR 9220 ENTROPIE "Ecologie Marine Tropicale des océans Pacifique et Indien"

en accueil: Laboratoire d'Océanographie de Villefranche (LOV) - UMR 7093 UMPC/CNRS 181 chemin du Lazaret, 06230 Villefranche-sur-Mer Portable: +33 (0)6 46 76 21 71

website: https://cecilefauvelotird.wordpress.com/ Cecile FAUVELOT <cecile.fauvelot@ird.fr>

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WashingtonStateU TasmanianDevilGenomics

POSTDOCTORAL RESEARCHER

Washington State University

School of Biological Sciences

We are seeking a postdoctoral researcher to study the (co)evolutionary genomics of Tasmanian devils and Tasmanian devil facial tumor disease, a transmissible cancer.This newly NSF-funded international collaboration builds on over 20 years of research tracking the spread of the unique infectious tumor across Tasmania and consequent endangerment of the iconic Tasmanian devil. Reference genomes and transcriptomes are available for both tumor and devil, and genomic evidence has shown rapid evolutionary responses of devils to the tumor, which is almost invariably fatal. The east to west spread of the disease has generated a natural experiment whereby devil populations have been infected for different numbers of generations and are thus at different stages of disease emergence. The successful applicant will have an unprecedented opportunity to analyze thousands of devil genotypes and hundreds of tumor samples taken throughout the stages of the epizootics across an entire species' geographic range to test for selection throughout both genomes, coevolution, patterns of resistance, and ultimately tests of the repeatability of evolution and coevolution. The position is centered in the lab of Dr. Andrew Storfer (https://labs.wsu.edu/storfer/) at Washington State University, in collaboration with Dr. Mark Margres (https://www.margreslab.com/) at University of South Florida and Dr. Rodrigo Hamede at University of Tasmania (https://discover.utas.edu.au/-Rodrigo.HamedeRoss).WSU has a state-of-the-art genomics core facility - the WSU Genomics Core (https://-/labs.wsu.edu/genomicscore/), and the Storfer lab has three computing nodes on the WSU Kamiak High Performance Computing cluster (https://hpc.wsu.edu/) to facilitate rapid data analysis. Additional collaborations exist with the possibility of exchanges with the Fred Hutchinson Cancer Research Center in Seattle, USF, and the University of Tasmania in Australia.

Review of applications will begin on October 16, 2023 and continue until the position is filled. A Ph.D. in Biology or a related discipline, combined with genomics and bioinformatics experience is required. Desired qualities also include a background in population genomics, phy-

lodynamics, infectious disease evolution, and/or cancer genomics.Start date is negotiable, but can be as early as December, 2023. Salary and benefits are competitive. Position is for 1 year, with continuation for additional year(s) pending satisfactory progress.To apply, please send in pdf format a CV, and names, addresses and email addresses of 3 references, a research statement, and up to 3 representative reprints via email to: Andrew Storfer (astorfer@wsu.edu).

WSU is an Equal Opportunity/Affirmative Action/ADA educator and employer.

Andrew Storfer, PhD Eastlick Distinguished Professor School of Biological Sciences Washington State University Pullman, WA 99164-4236 (509) 335-7922 astorfer@wsu.edu www.labs.wsu.edu/storfer "Storfer, Andrew" <astorfer@wsu.edu>

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WorkshopsCourses

CzechRepl Phylogenomics Jan21-Feb3

Deadline for application is Oct 18, 23:59 CEST

Dear Colleagues,

We're excited to announce that the Workshop on Phylogenomics will return to Cesky Krumlov from 21-January through 3-February 2024!

The Workshop will bring together an international collection of faculty members and workshop participants to study and discuss current ideas and techniques for exploring phylogenomics. The Workshop will consist of a series of lectures, demonstrations and computer laboratories that cover theoretical and conceptual aspects of large-scale phylogenetics and phylogenomics, with a strong emphasis on data analysis.

Topics of the Workshop are diverse and include:

Introduction to Phylogenomics: data matrix assembly (e.g., alignment, trimming, partitioning, concatenation) and tree visualization.State-of-the-art methods and software used in phylogenomic inference (Concatenation and coalescent methods, machine learning, etc.)Orthology, paralogy, and evolution of gene familiesTrait evolution on treesPhenotypic and species diversificationMacroevolutionary genotype-phenotype association studiesIncon-

gruenceGreen computingPhylogenomics in deep time-Horizontal gene transferTarget capture sequencing approaches in phylogenomics

The line-up of speakers/faculty includes - Olivier Gascuel (Institut de Systématique, Évolution, Biodiversité, MNHN, Paris, France), - Hélène Morlon (Institute of Biology at the Ecole Normale Supérieure, Paris, France), - Alexey Kozlov (Heidelberg Institute for Theoretical Studies, Germany), - Lisa Pokorny (Royal Botanic Garden, Madrid, Spain), - Jordi Paps (University of Bristol, UK), - Marina Marcet-Houben (Barcelona Supercomputing Center, Spain), - Laura Eme (Université Paris-Saclay, France), and Kerstin Lindblad-Toh (Uppsala University and Broad Institute), among others.

The Workshop is organized by Anna Karnkowska (University of Warsaw), Antonis Rokas (Vanderbilt University), Toni Gabaldon (IRB Barcelona, Barcelona Supercomputing Centre) and Rosa Fernandez (Institute of Evolutionary Biology CSIC-UPF, Barcelona) and supported by an excellent team of Teaching Assistants.

The Workshop on Phylogenomics will take place in the idyllic village (and UNESCO world heritage site) of Cesky Krumlov, located in the Southern Bohemian region of the Czech Republic from January 21 to February 3, 2024. Applications for the workshop via the website will open shortly and be open until Oct 18. Applications received after the deadline will be placed on the waiting list.

Please check the website http://evomics.org/2024-workshop-on-phylogenomics-cesky-krumlov/ for updated information on the schedule, faculty and for submitting your application. We look forward to seeing you there!

Is the Workshop on Phylogenomics too specific or not the right match for your needs? Check out the awesome Workshop on Genomics (http://evomics.org/2024-workshop-on-genomics/) for a zero-to-hero course getting you into bioinformatics!

“Steffen, Karin” <karin.steffen@Vanderbilt.Edu>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

CzechRep Polyploidpopgen Mar15-22

4th International Workshop on Population genetics of polyploids, from theory to practice Mohelno Field station, Czech Republic, 15 March ?¿‘ 22 March 2024

Organizers: Alison Scott, Filip Kolar, Patrick Meirmans, Marc Stift.

Objectives: Polyploidy is widespread and frequent in plants, but also occurs in animals such as fish and amphibians. However, our understanding of the genetics of polyploid populations is still poor, mainly because population genetics theory was originally developed for diploids. Moreover, there is often a gap between theory developed for polyploids and its practical implementation. This hands-on workshop will attempt to bridge this gap. Simulation-based exercises (among others using R) will elucidate theoretical foundations of both diploid and polyploid population genetics, and cases of mixed ploidy. Additionally, analyses of real(istic) example datasets will give participants hands-on training in several available methods for the population genetic analysis of polyploids.

Preliminary Program and teachers: see next page.

Prerequisites: Basic knowledge of R programming language and general knowledge of population genetic foundations of diploid populations (diversity, differentiation). Experience in scripting and simulation in R is useful, but we offer an optional crash-course for beginners before the workshop.

Costs: participation and accommodation is free. Travel arrangements, meals and other expenses will be at own cost. Staff and participants will organize the meals together to keep costs as low as possible.

Who can apply: The course is aimed at PhD students, but we will consider applications from experienced Master-students and early-postdocs. The number of participants is limited, and we will select participants based on their motivation, career stage and topical relevance.

How to apply:

STEP 1 - Fill out the application form at https://-forms.gle/YdZbPeEGfcQynATY7 . STEP 2 - Prepare a CV and a motivation letter, which summarizes your research and your motivation to participate in the work-

shop (maximum 500 words). Merge CV+letter in a single PDF and send to polyploids2024@gmail.com

Finalize both steps no later than 30 November 2023. Applications completed after the deadline will only be considered if there are still spaces available.

Own data: In case you are willing to provide own data for the project work (not obligatory), please provide a short description of the data set (organism, type of markers, analyses done/in progress) and the scientific questions that could be addressed

International Workshop on Polyploid Population Genetics (4th edition) Organizers: Alison Scott, Filip Kolar, Patrick Meirmans, Marc Stift. polyploids2024@gmail.com

polyploids2024@gmail.com

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Erice Italy UrbanMammals Nov20-25 DeadlineOct30

Dear all,

Just a reminder that the deadline to register to the upcoming workshop on "Urban Mammals in Europe" is October 30th. The workshop will give a broad overview of this well-established phenomenon with reference to European mammals discussing the present situation and future perspectives with an adaptive management focus. The workshop combines presentations from internationally recognized speakers and plenty of time to discuss and interact with them.

Course dates: 20-25 November 2023

Course location: Erice, Sicily, Italy

Course website: https://www.centromajorana.it/-urbanmammals2023/ *Registration fee includes: workshop, accommodation and meals, social trip, shuttle from and to the airport*

Topics and speakers:

*"Uncertainty in the city": the opportunities and challenges of urban ecosystems for mammals - * PETER W.W. LURZ

*Human-wildlife conflicts in urban ecosystems - * IZABELA WIERZBOWSKA

*Urbanization and its effects on behaviour: what can Canids tell us? - * SARAH MARSHALL-PESCINI

*Urban mammals: consumption of human resources, health and stress physiology - * REBECCA RIMBACH

*Urban mammals and their gut microbiota: what determines what? - * ANTTON ALBERDI

*Evolution in the city: a molecular ecology perspective - * MASSIMO SCANDURA, NADIA MUCCI, ROMOLO CANIGLIA

*Urban mammals in Slovenia - * BOSTJAN POKORNY

*Urban mammals in Poland - * MIROSLAW RATKIEWICZ

*Urban mammals in Spain - * JOAQUIN VICENTE

*Urban mammals in Italy - * MARCO APOLLONIO, SANDRO BERTOLINO, FRANCESCO FERRETTI, ADRIANO MARTINOLI

For any questions, please contact <urbanmammals2023@centromajorana.it>

Best regards,

Laura Iacolina

Laura Iacolina <lauraiacolina@gmail.com>

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Hinxton ComputationalMolecularEvolution May18-29

Dear Colleagues,

Wellcome Advanced Workshop on "Computational Molecular Evolution", 18-29 May 2024, Wellcome Genome Campus, Hinxton, UK Application deadline: 30 November 2023

COME2024, our 14th summer school on COmputational Molecular Evolution, is now open for application. For further information and to apply, please visit

https://coursesandconferences.wellcomeconnectingscience.org/-event/computational-molecular-evolution-20240518/ ziheng yang on behalf of the organizers.

"Yang, Ziheng" <z.yang@ucl.ac.uk>

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NewOrleans BiogeographyR Dec11-16

We are excited to announce a workshop in biogeographic methods and tools development in the R computing environment. The course will take place in New Orleans from December 11-16, 2023. The workshop is intended for anyone with interest in biogeographic methods and little prior computer programming experience, to an intermediate or advanced computational biologist curious about honing their skills in R for biogeography and macroecology. Selected participants will be encouraged to arrive with a dataset of their own, or with an idea for a biogeographic project in R.

On the first 3 days of the workshop, course leaders will provide an introduction to the primary data structures and methods of common biogeographic R packages, good R practices, basics of computational algorithms for biogeography, and an overview of other essential topics of software development in R. Over the next 3 workshop days, participants will work in breakout groups with workshop leaders to develop a biogeographic project in R or develop a small R package on their chosen topics.

The workshop is funded by an NSF award (NSF DBI-2113424), with additional support from Stanford University and Southeastern Louisiana University. All accepted students originating from a U.S. port of origin will have their travel costs covered or defrayed, and room and board during the workshop will be provided.

Please submit applications via https://forms.gle/-AtfPBw3HdMb7bAb1A Admission is competitive. Applications should be submitted by October 31, 2023.

Barnabas Daru, Ph.D.

Assistant Professor of Biology

Stanford University Email:bdaru@stanford.edu Lab website:darulab.org

Barnabas Daru <darunabas@gmail.com>

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Online aDNAPopulationGenomics Jan8-12

Dear all, registrations are now open for the 2nd edition of the course“ Population Genomics Using Ancient DNA Data”.

Dates: (Online) 8th-12th January 2024

Course website: (https://www.physalia-courses.org/-courses-workshops/adna-popgen/)

Our course will delve into the methods and techniques for generating and analyzing ancient DNA (aDNA) data, with a primary focus on eukaryote genomes, which boasts a wealth of publicly available aDNA data.

This course combines in-depth lectures with hands-on exercises, providing a comprehensive understanding of population genomic research using aDNA. The practical exercises will be conducted in a Linux environment, and data visualization will be performed using RStudio.

It is tailored for graduate students and researchers in genetics, ecology, and anthropology who wish to harness the power of aDNA data in population genetics research. While the course examples primarily focus on humans, the methods discussed are applicable to researchers studying other organisms with available aDNA data.

Course Schedule (Berlin Time): - Monday: Data processing and authentication - Tuesday: Population structure and relatedness - Wednesday: Introduction to the coalescent theory; D and F statistics - Thursday: Demographic inference - Friday: Simulations; Natural selection

For the full list of our courses and Workshops, please have a look at (https://www.physalia-courses.org/-courses-workshops)

Best regards, Carlo

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Online ComparativeGenomics Feb12-16

Dear all,

registrations are now open for the online Comparative Genomics course in February (12th-16th).

Course website: (https://www.physalia-courses.org/-courses-workshops/course34/)

This course is designed to introduce biologists and bioinformaticians to the realm of comparative genomics. We will cover a wide spectrum of software and analysis workflows, from assembling and annotating small eukaryotic genomes to identifying single nucleotide variants (SNVs) and structural variants (SVs). You'll also learn to assess the functional impact of detected variants within an evolutionary context.

By the end of this course, you will achieve the following: - Identification of SNPs and SVs through de novo genome assembly and read mapping strategies. - Assessment of different DNA sequencing technologies (Illumina, Pacific Bioscience, Oxford Nanopore) for variation detection. - Understanding the strengths and limitations of de novo assembly and mapping in comparative genomics. - Hands-on experience with cutting-edge methods for comparing multiple genomes. - Annotation of variations and conducting comparative genomics analysis. - Proficiency in biological sequence analysis within an evolutionary context. For the full list of our courses and workshops, please check it out: (https://www.physalia-courses.org/courses-workshops/course34/)

Best regards, Carlo

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Online DevelopingRPackagesForGenomics Nov13-17

Dear all,

there are still a few seats available for our upcoming online course, "Developing R/Bioconductor Packages for Genomics" scheduled to take place from November 13 to November 17, 2023.

This course is tailored for people who are interested in enhancing their programmatic skills and wish to delve into the realm of R/Bioconductor package development. Throughout the course, you will gain a comprehensive understanding of package development, learn key theory concepts, explore the Bioconductor ecosystem, and acquire practical skills through demonstrations and exercises.

By the end of this course, you will be able to:

- Leverage Bioconductor principles of interoperability. - Write sets of interconnected functions for genomic data. - Document and test functions. - Manage package dependencies and versions. - Implement package continuous integration. - Create a dedicated website for your package. - Successfully submit, release, and maintain your package. - Disseminate your package, including publishing it.

Course Program:

Day 1: Writing functions, Introduction to package building, Local development with devtools, Introduction to Github Actions and Continuous Integration.

Day 2: Documenting functions, Testing functions and package, Managing dependencies & namespace.

Day 3: Introduction to Bioconductor: interoperability and other key notions, Creating custom Bioconductor objects, Including data in packages.

Day 4: Package vignettes: demonstrating how to use your package, Submitting/releasing/maintaining a Bioconductor package.

Day 5: Other types of Bioconductor packages: datasets, workflows, Disseminating your package: package support website, JOSS, rOpenSci.

For more details and to register, please visit: (https://www.physalia-courses.org/courses-workshops/-r-packages/)

For the full list of our courses and Wokshops, please visit: (https://www.physalia-courses.org/courses-workshops/-r-packages/)

We look forward to welcoming you to our course!

Best regards, Carlo

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Online FlowCytometryInR Jan15-18

Dear all,

We are excited to announce an upcoming online course, "FLOW CYTOMETRY ANALYSIS WITH R/BIOCONDUCTOR" (2nd edition) taking place from January 15th to January 18th, 2024.

In this course, you will learn the fundamentals of flow cytometry and why it is indispensable for understanding cell population composition. We will delve into the best practices for flow cytometry data analysis using R/Bioconductor, covering data preprocessing (compensation, transformation, and quality control), multi-dimensional cell population identification through clustering, and visualizing results in 2D. These skills are applicable to various cytometry techniques, including flow, mass, and spectral.

This course is tailored for anyone interested in analyzing biological samples with single-cell flow cytometry. No prior background in flow cytometry or R/Bioconductor is required, as we will provide a brief introduction.

By the end of this course, you will: - Gain a deep understanding of flow cytometry and its analytical purpose. - Be able to set up the infrastructure for R and write basic data analytic scripts. - Describe and execute each step in the flow cytometry data analytics pipeline using R/Bioconductor. - Be comfortable interpreting and drawing conclusions from flow cytometry data analytics results.

For more information about the course, please check it out: (https://www.physalia-courses.org/courses-workshops/flow-cytometry)

For the full list of our courses and workshops, please check it out: (https://www.physalia-courses.org/-courses-workshops)

Best regards, Carlo

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Online GeneSetEnrichmentAnalysisInR Jan22-25

Dear all,

registrations are open for the next edition of the online course on "Gene Set Enrichment Analysis in R/Bioconductor" taking place from January 22nd to January 25th, 2024.

This course will cover popular GSEA tools, both online-based and R packages, providing a detailed introduction to various GSEA methods, including overrepresentation analysis, univariate and multivariate methods, network-based GSEA, single-sample GSEA, and more. Additionally, you will learn how to efficiently process GSEA results, visualize them, and implement GSEA methods from scratch in R.

Learning Outcomes: 1. Perform GSEA analysis using popular tools. 2. Understand various GSEA analysis methods. 3. Efficiently visualize GSEA results.

Program Details: - Sessions from 14:00 to 20:00 (Berlin time) from Monday to Thursday, with 10-minute breaks after every 50 minutes. - Sessions will follow a learn-by-practice approach, including discussions, Q&A, and hands-on practice. - Participants are encouraged to bring their data for practical exercises.

Course Schedule: - Monday: Introduction to GSEA analysis, basic methods, and tool demonstrations.

- Tuesday: Theoretical foundations, including univariate and multivariate methods, and implementing new GSEA methods from scratch in R.

- Wednesday: Extensions of GSEA analysis, includ-

ing network-based GSEA, genomic region-based GSEA, GOseq, and single-sample GSEA.

- Thursday: Downstream processing of GSEA results, efficient visualization, and simplifying interpretation.

For more details and registration, please visit the course page: (https://www.physalia-courses.org/-courses-workshops/course53/)

For the full list of our courses and Workshops, please check it out: (https://www.physalia-courses.org/-courses-workshops/course16/)

Best regards, Carlo

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Online GenomeAssembly Oct23-27

Dear all,

there are only 4 seats left for the course Eukaryotic genome assembly using Pacbio and Hi-C.

Dates: online, 23rd-27th October

Course website: (https://www.physalia-courses.org/-courses-workshops/pacbio/)

Eukaryotic genomes can be intricate puzzles, filled with repetitive sequences and complex structures. Our course is designed to equip you with the skills and knowledge needed to tackle these challenges head-on. Using cutting-edge long-read sequencing technologies, we'll show you how to assemble genomes with unprecedented contiguity and accuracy. Moreover, you'll learn how to leverage Chromatin Conformation Capture (Hi-C) data to scaffold assemblies into complete chromosomes.

By the end of the course, you can expect to: Gain a deep understanding of PacBio HiFi, PacBio CLR, and Hi-C data. Grasp the core concepts of de novo genome assembly. Acquire practical experience in utilizing state-of-the-art tools for assembly and quality assessment.

For the full list of our courses and workshops, please have a look at: (https://www.physalia-courses.org/-courses-workshops/)

Best regards, Carlo

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Online GenomicPrediction Jan29-Feb2

Dear all,

registrations are now open for the next edition of the course on Genomic Prediction.

Dates: online, January 29th- February 2nd

Website: (https://www.physalia-courses.org/courses-workshops/course49b/)

This course will introduce students, researchers and professionals to the steps needed to acquire expertise in the genomic prediction area applied to animals, plants and humans. The course will describe all the necessary steps involved. We will start by introducing general concepts of Quantitative Genetics and mixed model theory, progressively describing all steps and putting there seamlessly together in a general workflow.

After attending this course, attendees will be in the position of:

Interpreting and calculating the genomic breeding value and genomic risk score Understanding the different steps involved in a typical genomic prediction analysis and how to implement computer tools to carry them on. Implement cross validation design to estimate the ability of genomic data to predict complex traits, and its application in human genetics and breeding programs.

For the full list list of courses and Workshops, please have a look at: (https://www.physalia-courses.org/-courses-workshops/course49b/)

Best regards, Carlo

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Online IntroRNASeq Oct24-31

Dear colleagues,

There are a few slots available at the course

"Introduction to RNA-seq bioinformatic pipelines".

Dates and schedule: Online live sessions on 24, 26, 27, 30, and 31 October; 13:00 to 17:00 (Madrid time zone), plus 6 hours of participants working on their own.

More information and registrations: https://-www.transmittingscience.com/courses/genetics-and-genomics/introduction-to-rna-seq-bioinformatic-pipelines/ Course Overview:

This is an introductory course aiming at guiding students through the execution of the most common pipelines used to analyze different types of data generated through RNA sequencing with NGS technologies.

The course focuses on the use of Linux-based software and tools and is oriented to graduates or postgraduates with a degree in Biomedical or Life Sciences. No previous experience working with Linux-based operating systems is required.

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.

Soledad De Esteban-Trivigno <soledad.esteban@transmittingscience.com>

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Online MetabolomicsInR Oct23-26

Dear all,

there are only 3 seats left for our upcoming course, "Metabolomics in R/Bioconductor: from study design to data analysis," which is set to take place from October 23-26, 2023. To facilitate global participation, this course will be conducted online.

Course website: (https://www.physalia-courses.org/-courses-workshops/course55/)

The primary goal of this course is to explore the essential facets of metabolomics from a data analyst's perspective. We will delve into critical considerations for launching a successful metabolomics study, covering everything from practicalities related to study and analytical design to data preprocessing and statistical analysis. Our teaching approach will incorporate a mix of engaging lectures, hands-on computer-based exercises, and group discussions.

Participants will leave this course equipped with the skills to confidently analyse metabolomic data, whether

targeted or untargeted, using R. Additionally, the course will serve as an excellent primer for applying univariate and multivariate statistics to complex datasets.

For the full list of our courses and Workshops, please have a look at: (https://www.physalia-courses.org/-courses-workshops)

Best regards, Carlo

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Online MetagenomicsMetabarcoding Oct23-26

Dear all

We'd like to invite applicants to our online course: Introduction to Metabarcoding and Metagenomics Analysis.

The ability to identify organisms from traces of genetic material in environmental samples has reshaped the way we see life on earth. Especially for microorganisms, where traditional identification is hard or near impossible, metagenomic techniques have granted us unprecedented insight into the microbiome of animals and the environment more broadly. This live online course gives an introduction to the pipelines and best practices for metagenomic data analysis, lead by expert bioinformaticians from Edinburgh Genomics.

Date: 23rd - 26th October 2023 (10 am - 3:30 pm each day)

Registration fee: 380; 405; 430 (University of Edinburgh staff/students; Other University staff/students; Industry staff)

Instructors: Urmi Trivedi, Head of Bioinformatics, Edinburgh Genomics & Heleen De Weerd, Bioinformatician, Edinburgh Genomics

Requirements: A general understanding of molecular biology and a working knowledge of Linux at the level of the Edinburgh Genomics' 'Linux for Genomics' workshop.

Please see our website for details and sign-up: https://genomics.ed.ac.uk/services/introduction-metabarcoding-and-metagenomics-analysis Kind Regards

Nathan Medd (Training and Outreach Manager - Edinburgh Genomics)

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Nathan Medd <nmedd@ed.ac.uk>

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Online MicrobialMetabarcoding Feb5-9

Dear all,

registrations are now open for the next edition of the online course, "METABARCODING IN MICROBIAL ECOLOGY," scheduled for February 5th to February 9th, 2024.

This course offers an immersive journey into the realm of metabarcoding techniques in microbial ecology. We will delve into a wide array of topics, from the bioinformatic processing of next-generation sequencing data to the essential approaches in multivariate statistics. Through a blend of theoretical lectures and hands-on exercises, you will master the computational intricacies of a metabarcoding study, from the initial processing of raw sequencing reads to the final statistical evaluations. By the end of this course, you will be equipped to grasp the potential and limitations of metabarcoding techniques and process your own datasets to address critical questions in your research. ï¿½ By the conclusion of this course, you will achieve the following objectives: 1) Grasp the concepts, potential, and limitations of microbial metabarcoding techniques. 2) Learn how to process raw sequencing reads to derive meaningful insights. 3) Gain experience in statistically evaluating and visualizing your data. 4) Acquire the ability to make informed decisions on best practices for your own data.

Course website: (https://www.physalia-courses.org/-courses-workshops/course30/)

For the full list of our courses and workshops: (https://www.physalia-courses.org/courses-workshops/)

Best regards, Carlo

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Online Palaeoproteomics Nov2-9

Dear colleagues,

This course might be of interest to people on this list: "Palaeoproteomics and Zooarchaeology by Mass Spectrometry (ZooMS)".

Instructor: Dr. Michael Buckley (University of Manchester, UK).

Schedule: Online live sessions on the 2nd, 3rd, 6th, 8th, and 9th of November; from 13:00 to 17:00 (Madrid time zone), plus 4 hours of participants working on their own.

Places are limited to 12 participants and will be occupied by strict registration order.

Course overview

In this course, participants will be introduced to paleoproteomic methods that will include various R packages including MALDIquant, for ZooMS MALDI peptide mass fingerprint-based species identification, MSFragger for sequencing, and an introduction to incorporating proteomic sequence data into molecular phylogeny reconstruction using MEGA.

During the course, participants will first be introduced to some theory with illustrative examples (both from simulated data as well as some real datasets) and will then learn how to interpret the data as well as how to assess their reliability.

More information and registration: https://www.transmittingscience.com/courses/genetics-and-genomics/palaeoproteomics-and-zooarchaeology-by-mass-spectrometry-zooms/ or write to 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.

Links: —— https://www.transmittingscience.com/instructors/michael-buckley/ Soledad De Esteban-Trivigno <soledad.esteban@transmittingscience.com>

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Online PhylogeneticComparativeMethodsUsingJulia Nov9-17

Dear colleagues,

I am happy to announce a new Transmitting Science course taught by Ignacio Quintero: "Introduction to probabilistic inference of Phylogenetic Comparative Methods (PCM) using Julia". Format: Live online.

Schedule: Online live sessions on 9th, 10th, 13th, 15th, and 17th of November; from 14:00 to 18:00 (Madrid time zone).

Course Overview This course offers an advanced understanding of probabilistic inference of Phylogenetic Comparative Methods (PCM), exploiting the capabilities of the Julia language. Participants will gain a deeper knowledge of the stochastic processes, their inference and computation behind PCMs as well as their biological interpretations.

We will start with an introduction to Julia language, a powerful new language for numerical computing that combines high performance with high-level syntax, attaining comparable speeds as C, yet remaining accessible to programming initiates. We will then overview probabilistic inference within a Bayesian framework, reviewing basic probability concepts and posterior parameter estimation. Finally, most of the course will then delve into the main three PCM: trait and biogeographic evolution, and a deeper emphasis on diversification models. Topics covered include basic foundations (i.e., diffusion processes such as Brownian motion, time-continuous Discrete Markov models, birth-death models) to then build-up to the more advanced models that allow for interdependence between processes (i.e., environmental and geographic diversification, inference of biotic interactions). The course will combine introductory lectures and hands-on exercises.

More information and registration: https://-www.transmittingscience.com/courses/evolution/-introduction-to-probabilistic-inference-of-phylogenetic-comparative-methods-pcm-using-julia/ Best wishes 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 .

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Soledad De Esteban-Trivigno <soledad.esteban@transmittingscience.com>

Online SexChromosomeEvolution Feb5-9

Dear all,

registrations are now open for the 3rd edition of the Online "Sex Chromosome Evolution" course, taking place from 5th to 9th February 2024.

In this course, we will guide you through the entire process, from designing your study and collecting genomic/transcriptomic data to identifying sex chromosomes. You'll delve into the molecular evolution of sex chromosomes, exploring topics such as recombination suppression, gene gain/loss, gene expression differentiation, and genome divergence. Hands-on exercises will empower you to manipulate, visualize, and interpret genomic data, equipping you with valuable skills.

The course will be delivered online across five day sessions (6 hours each) with a blend of live lectures and practical exercises, ensuring an engaging and interactive experience.

By the end of this course, you will be able to: 1. Conduct computational analysis to detect homo/heteromorphic sex chromosomes. 2. Search for signals of early stages of sex chromosome differentiation. 3. Determine the timing and patterns of recombination suppression. 4. Analyze sex chromosome gene expression differentiation and genome divergence computationally. 5. Explore dosage compensation. 6. Interpret these findings within an evolutionary context.

For more information, please check it out: (https://-www.physalia-courses.org/courses-workshops/sexchr/)

For the full list of our courses and workshops, please have a look at: (https://www.physalia-courses.org/-courses-workshops)

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

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Online TeachingSexualSelection Nov2

*Online Workshop: **Teaching Sexual Selection *

*2 November: *at 15:00-17 Stockholm Time (9 am -11 AM CT in the US) Zoom only

Linda Fuselier, University of Louisville, Jonathan P. Drury, Durham University, and Ingrid Ahnesjï¿½, Uppsala University.

Evolutionary biologists and interdisciplinary scholars have amassed evidence questioning the theoretical assumptions and methods that scaffold classic sexual selection theory. Rethinking sexual selection has been undertaken but more updated versions of the theory are rarely presented in classrooms and the teaching of sexual selection remains understudied. Given the upheaval of traditionally understood sexual selection, how and what do we teach to our college science students and how can sexual selection teach our students about science? This workshop is divided into two parts: the first is one hour shared by several presenters to provide the context and the second is a discussion of how to construct lessons to teach sexual selection differently with example case studies.

For registration: send an e-mail to Malin.Ah-King@gender.su.se, deadline 29 October.

Welcome to join!

Malin Ah-King,

Coordinator for the Gender Academy at Stockholm University, Sweden.

malinslistor@gmail.com

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SanDiego EndangeredSpeciesGenomics Jan12

ORG.one Genomes for Conservation Workshop at PAG31

Dear Conservation Genomics community,

At the upcoming PAG 31 meeting there will be a new workshop that may be of interest to many in the community: ORG.one Genomes for Conservation of Critically Endangered Species < https://pag.confex.com/pag/31/-meetingapp.cgi/Session/9749 >. The workshop will be held on Friday, January 12, 2024 from 10:30 AM to 12:40 PM in Pacific E at the Town and Country Resort in San Diego, CA.

We are soliciting abstracts from interested individuals and groups to present at the workshop. Any project that relies on Org.one sequencing is appropriate for a submission. This includes wet lab and bioinformatic methods, de novo genome sequencing projects, population genetic projects, outreach initiatives, or other projects derived from participation in the ORG.one project.

To submit an abstract, please email it in any format to the workshop organizer before Friday, November 10, 2023. Selected abstracts for oral presentations will be 15 minutes long. Presenting authors will be contacted in early November to provide a title. Early bird registration is ending soon (Oct. 31st) with rates increasing on Nov. 1st, however, workshop speakers may be able to obtain 'early-bird' registration rates after November with a discount code. Contact PAG and the workshop organizer for support.

If you have questions, please get in touch!

Karl Fetter (hemlock@uconn.edu)

Karl C. Fetter, PhD

USDA NIFA Postdoctoral Fellow Plant Computational Genomics Lab Department of Ecology and Evolutionary Biology University of Connecticut https://-karlfetter.github.io kcf@uconn.edu hemlock@uconn.edu

Karl Fetter <karl.fetter@gmail.com>

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SanDiego PAG CitizenGenomics Jan12-17

Call for Abstracts Participatory and Citizen Science Genomics Plant and Animal Genome 31 (PAG 31) International Conference http://www.intlpag.org/ January 12-17, 2024 Town and Country Convention Centre, San Diego, California

For the first time, the Participatory and Citizen Science Genomics workshop will debut at the Plant and Animal Genome 31 (PAG31-2024) International conference. You are invited to attend this Workshop and submit abstracts for oral presentations. The Workshop (https://pag.confex.com/pag/31/meetingapp.cgi/-Session/9732) will take place on Tuesday January 16, with a provision for 6 invited speakers. Invited presentations will be selected from the submissions. Please send your abstract and details using the form at the link https://forms.gle/WBXua1yvfJTwyKxw9, no later than November 8, 2023. You will be notified by November 15, 2023 whether your submission has been selected for an oral presentation.

Thereafter, the selected presenters will need to submit their abstract to the PAG website. Authors whose abstracts are not selected for oral presentations are highly encouraged to present a poster at the conference.

For information and questions regarding the Participatory and Citizen Science Genomics workshop, please contact Roberto Papa (and/or Elisa Bellucci) or write to PAG.citizenscience@gmail.com

Organizer: Roberto Papa - r.papa@univpm.it Department of Agricultural, Food and Environmental Sciences, Università Politecnica delle Marche Ancona, Italy

Co-organizer: Elisa Bellucci - e.bellucci@univpm.it Department of Agricultural, Food and Environmental Sciences, Università Politecnica delle Marche Ancona, Italy

ALICE PIERI <a.pieri@staff.univpm.it>

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SanDiego PopConservGenomics Jan12-17

Call for Abstracts Population and Conservation Genomics Workshop Plant and Animal Genome 31 (PAG 31) International Conference http://www.intlpag.org/ January 12-17, 2024 Town and Country Convention Centre, San Diego, California

The annual Population and Conservation Genomics workshop will be held at the Plant and Animal Genome 31 (PAG 31) International conference. You are invited to attend this Workshop and submit abstracts for oral presentations on any population and conservation genomics aspect of both plants and animals. The topics may include (but not limited to): population genomic diversity and structure; molecular evolution; pangenomes; phylogeography; landscape genomics; seascape genomics; natural selection and local adaptation; ecological and evolutionary genomics; population epigenomics; paleogenomics; eDNA; bioinformatics in population and conservation genomics; population genomics of speciation; metapopulation genomics; application of genomics in breeding, forensics, biogeography, demography inferences, and conservation and management of genetic resources; genomic effects of domestication, management practices, fragmentation, bottlenecks, climate and environment change, and transgenic deployment; and gene conservation; etc.

The Workshop will have 2 sessions (January 13 and January 15) with a provision for 12 invited speakers. Most of the invited presentations will be selected from the submitted abstracts. Please send your abstract of no more than 250 words by e-mail to Om Rajora (Om.Rajora@unb.ca) as an attached Word file no later than November 3, 2023. Please make sure to include complete affiliations of all authors and email address of the corresponding author. You will be notified by November 10, 2023 whether your abstract has been selected for an oral presentation. Thereafter, the selected presenters will need to submit their abstract to the PAG website. Authors whose abstracts are not selected for oral presentations are highly encouraged to present a poster at the conference.

Inquiries and Abstract Submission

For information and questions regarding the Population and Conservation Genomics workshop, please contact Om Rajora at the following coordinates.

Dr. Om P. Rajora University of New Brunswick Fredericton, NB E3B 5A3, Canada. E-mail: Om.Rajora@unb.ca Tel: (506) 458-7477

Om Rajora <om.rajora@unb.ca>

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UGroningen PhylogeneticComparativeMethods Oct2-6

There are a few seats left on the PhD/Postdoc course on Phylogenetic Comparative Methods in R, taught by expert professors Harmon & Revell. The course venue is the unique 'Natuurvriendenhuis De Hondsrug' at Noordlaren, Netherlands, organized by the Research School Ecology & Evolution, University of Groningen.

For this occasion, professors Liam Revell < https://-faculty.umb.edu/liam.revell/ > (associate professor of biology at the University of Massachusetts, Boston) and Luke Harmon < https://www.uidaho.edu/sci/biology/-people/faculty/lukeh > (professor of biological sciences at the University of Idaho), authors of the recently published book on Phylogenetic Comparative Methods, join professor Rampal Etienne at the Groningen Institute for Evolutionary Life Sciences, to teach this in depth course for a limited number of PhD students and Postdocs.

Aim of the course:

Learn how to gain a solid foundation in the Phylogenetic Comparative methods and develop the skills you need to interpret patterns in the tree of life.

Contents & Structure:

Phylogenetic comparative methods are a suite of statistical approaches that enable biologists to analyze and better understand the evolutionary tree of life, and shed vital new light on patterns of divergence and common ancestry among all species on Earth. This course shows how to carry out phylogenetic comparative analyses in the R statistical computing environment. Liam Revell and Luke Harmon provide an incisive conceptual overview of each method along with worked examples using real data and challenge problems that encourage students to learn by doing.

The preliminary programme can be found here https:/www.rug.nl/research/ecology-and-evolution/-phdcourses/tentative-topic-and-activity-schedule-

revell-and-harmon-workshop.pdf . The course will be held in the beautiful rural area and forest of Noordlaren at 'Natuurvriendenhuis De Hondsrug' and starts Monday afternoon the 2nd of October 2023 and ends Friday the 6th at noon. The registration fee is euro 375,- for all PhD students belonging to the RSEE and affiliated research schools (PE&RC, WIMEK). All other participants pay euro 750,-. This includes lodging, meals, and the course material at the course venue.

The number of participants is limited to 20 max.

For more information and to register, please visit the course website < https://www.rug.nl/-research/ecology-and-evolution/phdcourses/-phylogeneticmethods?lang=en > or contact the Course organizer:

Dr. Corine Eising (Research School Ecology & Evolution)

c.m.eising@rug.nl

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UTartu EvolutionGenomicsMedicine Dec4-8

The Tartu online Winter School on Evolution, Genomics and Medicine 2023

This is the third school of a series of annual international courses that brings together evolution, genetics and medicine. The school is organised by the cGEM group at the Institute of Genomics, University of Tartu, Estonia (www.cgem.ut.ee).

Programme The course is focussed on methods and resources for identifying the present-day consequences of past natural selection for phenotypic variation and susceptibility to disease, and will cover advanced methods for inferring evolutionary histories from genomics data and linking them to large-scale genomic and functional datasets. Lectures introducing theoretical concepts and methods will be combined with workshops designed to give hands-on experience.

Teachers Anders Eriksson: Evolutionary of complex traits. Helle Sadam: Theory and applications of immunoprofiling. Vasili Pankratov: Tree-based based methods of evolutionary inference. Michael Dannemann and Danat Yermakovich: Introgression from archaic humans. Mayukh Mondal: Deep learning methods for evolutionary inference.

The school will be held online December 4-8 and will be free of charge. More information is coming soon, see the course webpage: https://cgem.ut.ee/winter-school-2023 *Application* The course is aimed at PhD students of mathematics and bioinformatics with an interest in evolution. We also welcome students from biological and medical backgrounds with sufficient background in computational analysis, advanced undergraduates, and postdocs.

Applications are to be sent by email to merit.kreitsberg@ut.ee. The application should contain: * Full contact data (name, affiliation, postal address, email address) * A brief CV containing prior studies and/or positions * A one-paragraph description of scientific interest and motivation * List of publications (if any)

Please send all relevant information in one pdf file (not in the email text). The deadline for applications is November 13 and we shall notify all applicants by November 17.

Please do not hesitate to contact the organisers for any questions (Dr Anders Eriksson, anders.eriksson@ut.ee, or Merit Kreitsberg, merit.kreitsberg@ut.ee).

Best wishes Anders

Dr Anders Eriksson Associate Professor of Interdisciplinary Research in Genomics Center for Genomics, Evolution and Medicine (cGEM) Institute of Genomics, University of Tartu Phone +372 5389 3407

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

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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 notifcation 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 LaTeX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category "Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:" and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formated) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by LaTeX do not try to embed LaTeX or TeX in your message (or other formats) since my program will strip these from the message.