E v o l D i r

February 1, 2024

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

Foreword

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

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

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

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Conferences

Boston RECOMB CompGenomics Apr27-28

21st RECOMB Satellite Conference on Comparative Genomics Boston, MA, USA April 27-28, 2024 Paper Submission Deadline: February 2nd, 2024

For 20 years, RECOMB-CG had been an autumnal venue for cutting edge research in comparative genomics by leading researchers in the mathematical, computational and life sciences. Recently, RECOMB-CG has moved to an April slot to co-locate with the RECOMB, which is in Boston this year. Attendance at both meetings offers the best of both worlds:

1. RECOMB-CG 2024: a small-medium conference in an intimate setting that fosters lively discussion, new connections and collaborations; http://recomb-cg.org 2. RECOMB: a large, international meeting that spans the full range of research in computational molecular biology and attracts participants from across the discipline. https://recomb.org/recomb2024/ With this new schedule, the RECOMB-CG 2024 submission deadline is right around the corner! We invite submissions for review by the RCG program committee on topics including genome evolution; population genomics; genome rearrangements; genomic variation, diversity and dynamics; phylogenomics; comparative tools for genome assembly; comparison of functional networks; gene identification or annotation; evolution of cancer genomes; comparative epigenomics; paleogenomics; phylodynamics; metagenomics, and related areas. We encourage submissions that offer new biological findings or otherwise highlight their relevance to biology.

Accepted contributions will be presented at the RECOMB-CG 2024 meeting and will appear in the RCG proceedings, published as a Springer LNBI volume. Selected contributions will be invited to participate in a journal special issue (with publication fees).

Submission (through consolidated RECOMB site) https://easychair.org/conferences/?conf=recomb2024 Key Dates Paper submission deadline: February 2, 2024 Author notification for papers: March 1, 2024 Final camera-ready version due: March 8, 2024

Poster submission deadline: April 7, 2024

Registration open: March 5, 2024 Conference: April 27-28, 2024 We look forward to receiving your valuable contributions and welcoming you to the 21st RECOMB Satellite Conference on Comparative Genomics

in Boston. Should you have any questions or require further information, please do not hesitate to contact us.

Warm regards,

Organizing Committee

Celine Scornavacca: celine.scornavacca@umontpellier.fr Maribel Hernandez-Rosales: maribel.hr@cinvestav.mx

David Sankoff <david.sankoff@uottawa.ca>

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CharlesU Prague AvianEvolution Mar22-24

Hi everyone,

I would like to share some exciting news with you regarding the upcoming Fledglings meeting, a small conference from the European Ornithologists' Union (EOU) targetting MScs, PhDs, and early postdocs working on any topic related to bird research. The event is scheduled to take place on 22-24 March 2024 in Prague, and Charles University will be hosting it.

On behalf of the organizing team, I am getting in touch to provide you with the latest information about this meeting. The deadline for registration is coming soon (January 20th), so I would appreciate it if you could help us by spreading the word among your students and colleagues.

I believe this is a fantastic opportunity for early career researchers to share work, either through an oral presentation or a poster. It's a great chance to connect with fellow students working in the field of birds and, of course, have some fun! We have also tried hard to offer a budget-friendly registration fee (ca. 60 euros per person). You can find more details on our website and follow us on Twitter for updates:

-Website: https://fledglings2024.birdlife.cz -Contact: eoufledglingmeeting@gmail.com

-Twitter: https://twitter.com/@FM_EOU_2024 Cheers, Javier Oñate Casado

Javier Oñate Casado <javiatocha@gmail.com>

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Dijon France MorphometricsAndEvolution Jun5-7

"Hello,

We are pleased to host a symposium on Morphometrics in Dijon France, from June 5 to 7.

The aim of this symposium is to bring together researchers using these methods for their research activities in various disciplines. We invite both undergraduate and graduate students, PhD students, postdocs, and professors to contribute an oral or poster presentation.

For further details and to register, visit: https://-smef24.sciencesconf.org/ See you soon in Dijon"

Dr. Sï¿½bastien Couette Maï¿½tre de Confi¿½rences - HDR Directeur Adjoint UMR uB CNRS EPHE 6282 Biogï¿½osciences Universitï¿½ de Bourgogne 6 Bd Gabriel 21000 Dijon

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Sebastien.Couette@u-bourgogne.fr http://-biogeosciences.u-bourgogne.fr Sebastien Couette <Sebastien.Couette@u-bourgogne.fr>

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Dresden InsectPhylogeny Sep27-29

10th Dresden Meeting on Insect Phylogeny (Dresden, September 27-29, 2024)

After a five-year break, the 10th Dresden Meeting on Insect Phylogeny is going to take place again at the Senckenberg Natural History Collections Dresden (Germany) on September 27-29, 2024 (Friday to Sunday).

As at previous meetings, ca. 25 invited speakers will talk about their phylogenetic research on insects covering a broad taxonomic range. In addition, attendees of the meeting are welcome to submit abstracts for contributed oral presentations (ca. 10 slots available) or posters on any subject related to the phylogeny and evolution of insects. Students and early career researchers are explicitly encouraged to submit their topics.

A website for the meeting will be set up in early 2024 and announced in another circular. The website will provide details on attendee registration and submission of abstracts; a preliminary program will be added later. As for former meetings, fees are kept low (general 90 Euros; reduced 45 Euros; 15 Euros added for late registration after June 30, 2024).

Please feel free to share this announcement through your channels!

We hope to see you in Dresden in September!

The Organizers: Klaus-Dieter Klass (Senckenberg Natural History Collections Dresden) Andreas Zwick (CSIRO - Australian National Insect Collection) Bonnie Blaimer (Museum fÃÂ¼r Naturkunde Berlin) Théo Léger (Museum fÃÂ¼r Naturkunde Berlin)

Bonnie Blaimer <bonnieblaimer@gmail.com>

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Dublin AncientDNA Jul29-31

Dear colleagues,

The SMBE Satellite meeting "Ancient DNA Beyond Allele Frequencies" will be hosted at Trinity College Dublin from July 29 to 31, 2024.

IMPORTANT DATES Deadline for abstract submission: February 9, 2024. Meeting dates: July 29-31, 2024

The discussions will cover topics such as imputation, ARGs, IBD and haplotype sharing, and all analyses or applications that will form the basis of the next generation of paleogenomics studies. The meeting will be explicitly aimed at researchers focusing on both humans and animals.

The plenary speakers are: Dr Leo Speidel Dr Lara Cassidy Dr Benjamin Peter

The conference has been designed to be small in size, fostering interactions, and featuring extensive discussion sessions. With 60 available spots and 26 talks, it also provides an excellent opportunity for young researchers to present at an SMBE meeting.

Registration fees (Students euro 100, Non-students euro 130) include 3 nights in a room at Trinity College, as well as meals. Additionally, we have 8 travel awards available for students and postdocs to assist with meeting attendance.

You can find all the information on our website: https://www.tcd.ie/Genetics/events/ancient-dna-2024/index.php The registration form is available here: https://forms.gle/NZaE5tMU2t3y8bFr6 For any questions, please send an email to the organizers. You can find the email address on the website.

See you in Dublin!

Marco Rosario Capodiferro <marcorosario.capodiferro@gmail.com>

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Ede Netherlands EvolutionaryBiology Apr23

NLSEB Meeting 2024, April 23rd @ Akoesticum in Ede! Registration is now open

We are excited to welcome you to the 2024 NLSEB meeting, the 7th meeting of the Netherlands Society for Evolutionary Biology, that will be held on Tuesday April 23rd at the Akoesticum in Ede.

The program includes plenary talks by Rosemary Gillespie (Berkeley), by Liliana D'Alba (Naturalis), by Tom Shimizu (AMOLF) and by the winner of the 2023 Netherlands Evolutionary Biology Prize (will be announced during the meeting). The program also includes two parallel presentation sessions, a cultural intermezzo, and plenty of time for poster presentations and socializing with your fellow evolutionary biologists, to strengthen your networking connections and to establish new collaborations.

To join us on April 23rd register here: https://-www.nlseb.nl/nlseb-meeting-2024 "Kupczok, Anne" <anne.kupczok@wur.nl>

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Helsinki EuroEvoDevo Amphioxus Jun24

Dear Colleagues,

We are pleased to announce the Amphioxus Satellite Meeting 2024, which will take place just ahead of the 2024 EURO EVO DEVO Meeting in Helsinki, Finland (https://www.helsinki.fi/en/-conferences/euroevodevo-2024).

The Amphioxus Satellite Meeting will be held at the University of Helsinki (the venue of the 2024 EURO EVO DEVO Meeting), with the aim to present and discuss our latest findings from our favorite model organisms, amphioxus, of course, but also from any other model relating to the evolution of chordate (and/or deuterostome) development!

The preliminary timetable for the Amphioxus Satellite Meeting is as follows:

Monday, 24th June, 2024

12:00-14:00 Lunch

14:00-15:30 Presentations: Session 1

15:30-16:00 Coffee break

16:00-18:30 Presentations: Session 2

Tuesday, 25th June, 2024

09:00-1030 Presentations: Session 3

10:30-11:00 Coffee break

11:00-12:30 Presentations: Session 4

12:30-14:00 Lunch

14:00-15:30 Presentations: Session 5

If you (or one of your colleagues) is interested in presenting at the Amphioxus Satellite Meeting, please send a tentative title and a short abstract to Salvatore (salvatore.daniello@szn.it). The submission deadline for the Amphioxus Satellite Meeting is March 29th, 2024.

Please note that Amphioxus Satellite Meeting participants need to register both for the Satellite Meeting and for the main EURO EVO DEVO Meeting. Registration is already open, with early bird registration ending on February 29th, 2024.

We will be grateful if you could forward this message to anyone potentially interested in attending the Satellite Meeting.

Looking forward to seeing you in Helsinki next summer!

Parhain terveisin (Best regards),

Hector Escriva, Jr-Kai Yu, Salvatore Dï¿½Aniello, Michael Schubert

-

Michael Schubert

Evolution of Intercellular Signaling in Development (EvoInSiDe) Group Laboratoire de Biologie du Dï¿½veloppement de Villefranche-sur-Mer (UMR 7009 - CNRS/Sorbonne Universitï¿½) Institut de la Mer de Villefranche 181 Chemin du Lazaret 06230 Villefranche-sur-Mer France

Tel: + 33 (0) 4 93 76 37 91 Fax: + 33 (0) 4 93 76 37 92 Web: https://lbdv.imev-mer.fr/en/research/teams/-evoinside/ Michael Schubert <michael.schubert@imev-mer.fr>

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Helsinki EuroEvoDevo GeneRegulation Jun25-28

Hi all,

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

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

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

If you want to join us discussing if and how gene regulatory networks may contribute to novel mechanistic insights into the evolution of developmental processes, please consider submitting your contribution to our symposium (S04) of the main meeting. The registration and abstract submission are open now. Here is the direct link to the registration/abstract submission website: https://www.helsinki.fi/en/conferences/euroevodevo-2024/registration-and-abstract-submission General information about the meeting is here: https://-www.helsinki.fi/en/conferences/euroevodevo-2024 Please be aware of the following deadlines: 15.02.2024 Abstract Submission 29.02.2024 Early Registration

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

Best wishes, Natascha and Nico

Nico Posnien (he/him) #gernperDu #CallMeByMyFirstName

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

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

"Posnien, Nico" <nposnie@gwdg.de>

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Helsinki EuroEvoDevo Jun25-28 Registration

Dear Evo Devo researchers,

We are excited to let you know that registration for the Euro Evo Devo 2024 is now open! *Abstract submission deadline is the 15th February 2024*, please register via the website here: https://www.helsinki.fi/-en/conferences/euroevodevo-2024 Euro Evo Devo 2024 will take place from* 25th to 28th June 2024 in Helsinki*, Finland. We have a diverse and exciting programme including Scott Gilbert, Steph Hoehn, Paula Elomaa and Yann Guiguen as keynote speakers.

5 satellite meetings (amphioxus, platynereis, arthropod, fish and crustacean) will take place before the main meeting on the 24./25. June. Registration is via the main registration page.

Looking forward to seeing you in Helsinki!

Best wishes, Rainer Melzer (secretary) on behalf of the EED executive committee and local organizing committee

EED Society <eed.soc@gmail.com>

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Heraklion Crete MachineLearningEvolGenomics May13-15

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

Our keynotes will be Sara Mathieson, H?l?ne Morlon, Pier Palamara and Tal Pupko. Submit your abstract before February 21st, register before April 15th.

More information on our website: https://-legend2024.sciencesconf.org/ Best regards, Bastien Boussau LBBE, UMR CNRS 5558 Lyon, France https://-lbbe.univ-lyon1.fr/fr/annuaires-des-membres/boussau-bastien Bastien Boussau <bastien.boussau@univ-lyon1.fr>

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

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

Bastien Boussau LBBE, UMR CNRS 5558 Lyon, France https://lbbe.univ-lyon1.fr/fr/annuaires-des-membres/boussau-bastien Bastien Boussau <bastien.boussau@univ-lyon1.fr>

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Heraklion Greece Malacology Sep15-20

Dear colleagues,

We invite you to *EUROMAL 2024* < http://-euromal2024.gr/ >, the *10^th European Congress of Malacological Societies*.

The congress, organized by the *Hellenic Malacological Society* < https://www.heme.gr/ >, and the Natural History Museum of Crete < https://www.nhmc.uoc.gr/-en/ >, will take place at the Cultural Conference Centre of Heraklio < https://www.cccc.gr/en >, Crete, from *15^th — to 20^th — September 2024*.

The motto of EUROMAL 2024 is *“The slow side of life on a rapidly changing planet”*.

The aim of the congress, among other things, is to highlight the importance of mollusks in our efforts to understand and address anthropogenic impacts on the environment.

Therefore, in EUROMAL 2024 all aspects of research concerning diversity, function, ecology, evolution, behavior, utility, and conservation of extant and fossil mollusks in the 21^st century is welcomed.

The meeting will continue the successful tradition of the past EUROMAL congresses, and we invite everyone with an interest in mollusks to join the EUROMAL 2024 in Heraklion and to present and discuss their work.

So, *save the date* and please follow the announcements about the Congress on its website (https://www.euromal2024.gr/) or contact us (euromal2024@gmail.com) for any queries you may have.

We are waiting for you all in Crete!

On behalf of the EUROMAL 2024 Organizing Committee

Sinos Giokas

Professor of Evolutionary Ecology Department of Biology, University of Patras GR-26500 Patras, Greece Tel: +30-2610-969218 E-mail: sinosg@upatras.gr Web Site: https://evolecol.upatras.gr/ *ÃßñïÃ² ÃêéÃ¾êáÃ²* ÃáèçāçôÃÃ² ÃÃÃ¥ëéêôéêÃÃ² ÃéêïëïāßáÃ² ÃÃ¬ÃÃ¬á£éïëïāßáÃ², ÃáíÃ¥Ãºéóô ÃÃ¬éïÃáôñÃ3¸íGR-26500 ÃÃôñá Ãçë: +30-2610-969218 E-mail: sinosg@upatras.gr ÃóôüôïÃºïÃ²: https://evolecol.upatras.gr/ Sinos Giokas <sinosg@upatras.gr>

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Lausanne IUSSI UnconventionalSocialInsects Jul7-11

Conference Symposium at the European meeting of the International Union for the Study of Social Insects (IUSSI)

“Beetles and other unconvential social insects”

organized by Jon Andreja Nuotclï¿½ and Peter Biedermann, University of Freiburg

July, 7th -11th, 2024 | Lausanne, Switzerland

We are pleased to host a symposium on the “other social insects” such as beetles, aphids, thrips, earwigs, and others that live in non-classical social groups known from termites and hymenopterans. The aim of this symposium is to bring together researchers working on these unconventional social insects with different social structures and ecologies. This may allow us to compare the drivers of social evolution in these different insect groups.

We invite both undergraduate and graduate students, PhD students, postdocs, and professors to contribute an oral or poster presentation.

Speakers who have already confirmed their participation are Sandra Steiger (University of Bayreuth, Germany) and Stephen Trumbo (University of Connecticut, USA).

For further details and to register, visit: https://wp.unil.ch/iussi-europe-2024/symposia/list-of-symposia/

Closing date for abstract submission is already on the 15th of February 2024.

peter.biedermann@forento.uni-freiburg.de

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London Speciation Apr11

Reminder:*Perspectives on Speciation*

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

Linnean Society of London, 11 April 2024

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

Accompanied by a Special Issue of the 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, including speakers, 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

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

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LosAngeles VIZBI2024 Mar13-15

Registration is open for the 14th international meeting on Visualizing Biological Data (https://vizbi.org/2024). The meeting takes place March 12-15, on-site at the University of Southern California (USC) in Los Angeles, and also online. To get early-bird rates, register before February 5.

This year's conference features keynotes from Jessica Hullman, Anders Ynnerman, and Alex McDowell. 18 speakers in 6 sessions focus on the use of data visualisation to study DNA (Remo Rohs, Fei Zhang, Karen Miga), RNA (Matthew Taliaferro, Charlie Sheehan, Jane Richardson), Proteins (Lorenzo Casalino, Fiona Naughton, David Koes), Cells (Ahna Skop, Wesley Legant, Andrew Moore), Tissues (Katy Borner, Katharina Ribbeck, Scott Fraser), and Populations (Steven Haddock, Alison Young).

The VIZBI Masterclass (March 12), provides data visualization training, and features sessions from Martin Krzywinski, Seán O'Donoghue, Barbora Kozlíková, and David Goodsell.

All participants are invited to present a scientific poster and 1-minute lightning talk describing their work which are published online (see vizbi.org/Posters/2023). Participants may also submit biologically inspired artwork, which will be unveiled by this year's Art & Biology chair, David Goodsell, following the evening keynote on Thursday 14th March.

For the full program see https://vizbi.org/2024/-Program We hope you can join us on-site or online in March!

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

J.Procter@dundee.ac.uk

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Montreal CancerEvolutionAcrossScales Jul26-30

Dear colleagues,

We (Zachary Compton and Diego Mallo) have organized a symposium for the 3rd Joint Congress on Evolutionary Biology to be held next summer in Montreal, Canada, which might interest some people on this mailing list.

The theme of the symposium is "Cancer Across Scales in the Light of Evolution," and the underlying idea is to feature talks focused both on methodological and

applied approaches to cancer evolution across scales. This topic includes, but is not limited to, the evolution of cancer and cancer-defense mechanisms across the tree of life, the evolution of cancer cells within a patient, and the development of evolutionary-based treatment strategies.

Here are some more details:

What: A symposium on "Cancer Across Scales in the Light of Evolution" at the 3rd Joint Congress on Evolutionary Biology (2024). https://-www.evolutionmeetings.org/ Where: Montreal, Quebec, Canada

When: July 26-30, 2024 (the exact date for the symposium TBA)

About: A collection of diverse presentations on methodological and applied approaches to cancer evolution across scales.

Goal: Provide proper context and framing to somatic-evolutionary research that could otherwise be seen as misplaced in general sessions. The next frontier of cancer evolution is fast approaching with the development of evolutionary-based treatment strategies, making it timely to foster the interaction between cancer biology and evolutionary biology researchers.

How to attend: Many conference support grants are available for students and early career researchers (e.g., conference fee waiver and travel support). See a collection of them here: https://www.evolutionmeetings.org/-travel–support.html What you need to do now: Apply for a grant right now. If you need a visa to visit Canada, conference pre-registration is open (https://-www.evolutionmeetings.org/registration.html). Regular conference registration & abstract submission will open in February. Please consider submitting your talk to our symposium! Even if your talk is not accepted by our symposium, all talks submitted by the deadline will be accepted for the conference and placed in an appropriate session.

Organizers and contacts: Please send any questions to symposium co-organizers Zachary Compton (zcompton@arizona.edu) and Diego Mallo (dmalload@asu.edu).

Proposal: Cancer is both an evolutionary process undergone by somatic cells and an evolutionary trait evolved across the tree of multicellular life; thus, evolutionary theory describes cancer dynamics across scales of biological organization. Across the tree of life, life history theory has provided a rich framework to make testable hypotheses studying the evolution of cancer suppression. Within individuals, new population genetics and phylogenetic methods have enabled the study of ecological and evolutionary dynamics of tumor cells, resulting in a better understanding of cancer progression. Perhaps the most impactful, evolutionary-based treatment strategies are showing very promising results and have the potential to revolutionize cancer treatment. This symposium will bring together experts from across disciplines to foster closer integration of these two traditionally separate fields. We invite both methodological and applied research to submit to this symposium.

This note is heavily inspired by Liam Revell's on his and Shinichi Nakagawa's Replicability & Reproducibility in Ecological & Evolutionary Research symposium.

Zachary Compton and Diego Mallo

Diego Mallo Adan <dmalload@asu.edu>

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Montreal Evol Jul26-30 Undergrads ApplyNow UDEProgram

Undergrads: Apply now for UDE Program at Evolution 2024

Applications are due Monday, January 29 for the Undergraduate Diversity at Evolution Program for undergraduate students interested in attending the in-person portion of the 3rd Joint Congress on Evolutionary Biology, or Evolution 2024 meeting, in Montreal, QC, Canada on July 26-30 (www.evolutionmeetings.org).

At the meeting, award recipients will present a poster, receive mentoring, and participate in a career-oriented discussion panel. Awardees will receive conference registration, round-trip airfare, accommodations, a meal stipend, and a ticket to the Super Social.

This is a program of the Society for the Study of Evolution Education and Outreach Committee. Learn more on our website:

https://www.evolutionsociety.org/content/education/-undergraduate-diversity-at-evolution.html Deadline: January 29, 2024

Questions? Email communications@evolutionsociety.org.

Best wishes,

Rich Kliman SSE Education and Outreach Committee Chair

Our mailing address is: Society for the Study of Evolution

4344 Shaw Blvd Saint Louis, MO 63110-2226

Society for the Study of Evolution <aneely@evolutionsociety.org>

Montreal ReproducibilityEcologyEvolution Jul26-30

Dear colleagues.

Shinichi Nakagawa & I have organized a symposium for the 3rd Joint Congress on Evolutionary Biology to be held next summer in Montreal, Canada & that might be of interest to some people people on this mailing list.

The theme of the symposium is "Replicability & Reproducibility in Ecological & Evolutionary Research" and the underlying idea is to feature talks focused both on analysis reproducibility, good research practices for replicability (such as pre-registration, blinding, etc.), and the "science of science" (e.g., meta-science aimed at measuring research reliability & improving scientific practices).

Here are some more details:

What: A symposium on "Replicability & Reproducibility in Ecological & Evolutionary Research" at â3rd Joint Congress on Evolutionary Biology (2024)

Where: Montreal, Quebec, Canada (https://-www.evolutionmeetings.org/)

When: July 26-30, 2024 (the exact date for the symposium TBA)

About: A collection of diverse presentations on reproducibility and "research on research" (meta-research/meta-science) in ecology and evolution.

Goal: Via the symposium, we increase the awareness of research issues and inefficiencies in ecology and evolution to promote open, reliable and transparent sciences.

How to attend: Many conference support grants are available for students and early career researchers (e.g., conference fee waiver and travel support). See a collection of them here: https://www.evolutionmeetings.org/-travel–support.html . What you need to do now: Apply for a grant right now. If you need a visa to visit Canada, conference pre-registration is open (https://-www.evolutionmeetings.org/). Regular conference registration & abstract submission will open in February. Please consider submitting your talk to our symposium! Even if your talk is not accepted by our symposium, all talks submitted by the deadline will be accepted for the conference and placed in an appropriate session.

Organizers and contacts: Please send any questions to symposium co-organizers Shinichi Nakagawa (s.nakagawa@unsw.edu.au) and/or Liam Revell (liam.revell@umb.edu)

Proposal: A growing number of fields across the medical & social sciences have identified what's become known as a "crisis of reproducibility," typically manifesting as studies & meta-analyses that point to low reproducibility of key research findings. In one well-known example, an industry lab attempted to replicate 52 important preclinical results of cancer biology and was only able to duplicate key findings in 6 of these. Though evolutionary biology has yet to encounter its own replication crisis, survey data and other information suggest that research practices known to be linked to low reproducibility are probably widespread. This symposium invites diverse perspectives on replicability & reproducibility, open science, the impact of research practices on the reliability of findings, & 'meta-science' (the science of science) to help ask if ecology & evolutionary biology are on the cusp of their own replication crisis & what can be done about it.

Liam J. Revell Professor of Biology, University of Massachusetts Boston Web: http://faculty.umb.edu/-liam.revell/ Book: Phylogenetic Comparative Methods in R < https://press.princeton.edu/books/phylogenetic-comparative-methods-in-r > (/Princeton University Press/, 2022)

"Liam J. Revell" <liam.revell@umb.edu>

Oeiras Portugal EvolBiology Mar20-22

We are organizing the Biology Across Scales Symposium, an international symposium at the Gulbenkian Insitute of Science in Oeiras, Portugal on the 20-22 March 2024. A large part of the symposium's topics includes Evolutionary Biology.

Dear colleagues!

We are thrilled to invite you to the Biology Across Scales Symposium at the Gulbenkian Institute of Science (IGC) in Oeiras, Portugal.

This international symposium features a stellar line-up of speakers whose research connects diverse biological scales, encompassing both theoreticians and experimentalists. The symposium aims to foster interactions among individuals addressing similar questions at different scales or in different model organisms, providing a unique opportunity for cross-disciplinary collaboration.

The symposium will be organized in the following days:

Day 1: Patterning and Signaling

Day 2: Interactions Across Scales

Day 3: Ecology and Evolution

Save the date and join us on March 20-22, 2024, at IGC for an enriching symposium experience.

Key information:

Registration is now open! Secure your spot by registering here: https://igc.idloom.events/biology-across-scales_2024 All participants should showcase their work through a talk and/or a poster

Talks submission deadline is January 26, 2024

Poster submission deadline is February 9, 2024

If you share our excitement and wish to learn more about the event, please visit our website: IGC Symposium: Biology Across Scales or feel free to drop us an email at bioscales2024@igc.gulbenkian.pt.

We are excited to announce that we will be offering travel grants, covering travel and accommodation expenses during the conference, to a selected number of participants who wish to attend. Further, we will be able to cover childcare expenses, also for a limited number of participants.For people with reduced mobility, we provide the ride to the hotel, conference venue and dinner.

For further details, please visit our website: https://-/gulbenkian.pt/ciencia/agenda/biology-across-scales-symposium/ We eagerly anticipate your presence in Lisbon next March!

IGC 2024 Symposium - Biology Across Scales Adolfo Alsina, Artemis Korovesi, Camille Ameline, Lorenzo Fant, Marta Liber, Ravi Vishwakarma & Yatharth Bhasin Instituto Gulbenkian de Ci??ncia Rua da Quinta Grande 6 2780-156 Oeiras, Portugal

Contact: +351214407900

bioscales2024@igc.gulbenkian.pt

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Online ModelingTheoryPopulationBiology Jan11

We are excited to announce the kickoff event for the Hybrid Thematic Program on "Modeling and Theory in Population Biology" through the Banff International Research Station (BIRS).

Modeling & Theory in Population Biology kickoff

Thursday, January 11, 2024

11:00am-1:30pm *Mountain time zone*

Program:

11:00 Noah Rosenberg - Welcome

11:10 Maria Servedio - The role of theory in evolutionary biology

11:35 Marc Feldman - Reflections on theoretical population biology then and now

12:00 Joel Cohen - Prime numbers, variance functions, beetle larvae, aphids, and tornadoes: research in mathematical population biology leads to unexpected applications

12:25 Tanja Stadler - Theoretical population biology in the response to the COVID-19 pandemic

12:50 Q&A with all the speakers

1:00 Online coffee hour in Gather.Town format

Webinar registration (11am)

https://stanford.zoom.us/webinar/register/WN_-j_AGiOSN6Bdfxx7wfUEg#/registration The kickoff event is the first in a series of events to advance Modeling & Theory in Population Biology scientifically as well as to build community and promote mentorship and training of emerging modelers & theoreticians. The online program will take place during January-May 2024, and we will also host a hybrid-format meeting May 19-24, 2024, with a small in-person component held at BIRS, https://www.birs.ca/events/2024/5-day-workshops/24htp001 . A schedule of upcoming events for the Hybrid Thematic Program appears at http://-cehg.stanford.edu/mtpb . To be added to the mailing list, please write Larry Bond, lbond@stanford.edu, with Modeling & Theory in Population Biology in the subject line.

In the process of running the BIRS program, we are launching the new Society for Modeling and Theory in Population Biology ("SMTPB") as an independent organization (https://smtpb.wildapricot.org), and we will be working with the community to develop a vision for its activities.

- The organizing committee (Mark Broom, Emilia Huerta-Sanchez, Ailene MacPherson, Sally Otto, Noah Rosenberg, Maria Servedio, John Wakeley)

noahr@stanford.edu

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OnlineSeminar ESEB STN Speciation Feb6

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 06 February 2024, 5 pm CET.

The upcoming session addresses the topic of "Sexual selection and speciation". We welcome speakers Tamra Mendelson (University of Maryland, Baltimore County, USA) and Tim Janicke (Centre d'Ecologie Fonctionnelle et Evolutive, 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/61199868169 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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Oslo Norway BiodivGenomics Apr11-12

Annual conference EBP-Nor The Earth BioGenome Project Norway (EBP-Nor) invites you to its annual conference and workshops, taking place from *April 8th to 12th, 2024** in Oslo*. Both the conference and workshops are open to anyone interested in genomics and biodiversity research. Join us for an immersive learning experience that combines hands-on workshops, insightful presentations, and networking opportunities.

In the lead-up to the conference, from April 8th to 10th, participants can enhance their knowledge and skills through engaging workshops led by our expert EBP-Nor members. These workshops will focus on the fundamentals of genome assembly, validation, curation, annotation, and comparative genomics, providing a solid foundation for understanding and analyzing genomic data.

During the conference itself, from April 11th to 12th, we will delve into the frontiers of genomics and biodiversity research. We will have keynote presentations from three renowned scientists:

Aiofe McLysaght (Trinity College Dublin) *Alexander Suh* (Leibniz Institute for the Analyses of Biodiversity Change), and *Olga Vinnere Petterson* (Uppsala University).

In addition, EBP-Nor project partners will present their ongoing work in collecting, sequencing, and analyzing genetic resources, providing a comprehensive overview of the project's achievements and the significant impact it has had on our understanding of Earth's biodiversity.

Don't miss this opportunity to connect with leading experts, expand your knowledge, and explore the cutting-edge of genomics and biodiversity research. Register today for the Earth BioGenome Project Norway conference and workshops! Please share this information in your respective environments.

Register through our website here < https://-www.ebpnor.org/english/events/earth-biogenome-norway-conference-2024.html >

Deadline for Abstract submission: *18 March* Deadline for registration: *27 March*

Best wishes, Josï¿½

–

jcerca.github.io

Google Scholar < https://scholar.google.pt/-citations?user=ZI1vWPEAAAAJ&hl=en > Evolutionary Biologist University of Oslo

Out on Rxiv (Jan 2024) ::: Consistent accumulation of transposable elements in species of the Hawaiian Tetragnatha spiny-leg adaptive radiation across the archipelago chronosequence < https://www.biorxiv.org/content/-10.1101/2024.01.03.574070v1 >

Recently published (Oct 2023) ::: Understanding natural selection and similarity: Convergent, parallel and repeated evolution < https://onlinelibrary.wiley.com/-doi/10.1111/mec.17132 >

Josï¿½ Cerca <jose.cerca@gmail.com>

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PennsylvaniaStateU MicrobiomeEvolution May30-31

The One Health Microbiome Symposium

- Host:One Health Microbiome Center at Penn State - Dates: May 30-31, 2024 - Location:University Park, PA USA - Website: https://www.huck.psu.edu/-institutes-and-centers/microbiome-center/2024-one-health-microbiome-center-symposium - Keynote speakers: - Dr. Steffanie Strathdee (UC San Diego, "From Bog to Bedside: The Story Behind the first Dedicated Phage Therapy Program in the United States.") - Dr. Paul Schulze-Lefert (Max Planck Institute, ???Reductionist approaches to determine functions of the plant root microbiota???) - Dr. Maria Gloria Dominguez-Bello (Rutgers University, ???The Microbiome in the Novacene???) - Dr. Edith Hammer (Lund University, ???Windows to the Underground ??? Live Broadcast from the World of Soil Microbes???)

Details:The symposium will feature internationally-renowned keynote speakers, faculty and trainee research talks, poster sessions, and networking events. The goal of the One Health Microbiome Symposium is to showcase how diverse ecosystems are dependent upon their microbial communities and how microbes flow through these ecosystems, evolve with hosts, and interact to shape the outcomes of health and disease. The biennial event creates an ongoing, supportive, diverse, and intimate environment for microbiome researchers at all career stages to connect.

"Ginnan, Nichole" <nginnan@psu.edu>

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Roscoff France CJM Plasticity Jun17-21

Dear colleagues,

We are pleased to announce the Conference Jacques Monod (CJM) entitled:

Life is plastic: How phenotypic plasticity makes us rethink central problems in biology.

It will held in Roscoff (Brittany, France), from 17 to 21 June 2024.

CJMs are organized by the CNRS, and include ˜100 participants who all present their work (either by oral presentation or poster) to foster scientific exchange. The list of invited speakers is available at this page: https://www.insb.cnrs.fr/fr/-life-plastic-how-phenotypic-plasticity-makes-us- rethink-central-problems-biology

The conference venue is a historical marine biology station in a beautiful village in Brittany: https://-en.wikipedia.org/wiki/Station_biologique_de_Roscoff

Registration, which involves a selection step, is open until March 11th here: https://cjm2-2024.sciencesconf.org/?forward-action=index&forward-controller=index&lang=en Note that registration fees include accommodation and meals.

Looking forward to seeing you there !

Luis-Miguel Chevin et Cameron Ghalambor

Luis-Miguel Chevin

Directeur de recherche CNRS Centre d'Ecologie Fonctionnelle et Evolutive 1919 route de Mende, 34293 Montpellier Cedex 5, France +33 (0)4 67 61 32 11

Luis-Miguel CHEVIN <luis-miguel.chevin@cefe.cnrs.fr>

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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.

The program is finally out! All information here: https:/-/eags2024.sciencesconf.org/ Registration still open! Deadline coming soon: January 31, 2024!

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

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, Evry Jean-Christophe Simon,INRAE, IGEPP, Rennes

Patrick Wincker,Genoscope, CEA, Evry

Aude Perdereau <aperdere@genoscope.cns.fr>

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UBologna TransposableElements CallForAbst Feb14

Dear colleagues,

the third conference on transposable elements in human evolution and diseases is approaching.

The CALL FOR ABSTRACTS closes on 14thFebruary at 6pm CET.

Selected talks will last 15 minutes + 5 minutes Q&A.

You can find all the info on the website: https://-transposableelementsbrain.wordpress.com/ Yours sincerely, Giorgia Modenini organizer and chair Transposable Elements in human evolution and diseases

Giorgia Modenini, PhD Studentâ€

Molecular Anthropology Lab & Centre for Genome Biol-

ogy Dept. of Biological, Geological and Environmental Sciences University of Bologna Via Selmi, 3 - 40126 Bologna (Italy) mail: giorgia.modenini2@unibo.it

Giorgia Modenini <giorgia.modenini2@unibo.it>

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ULausanne EvolutionSocialInsects Jul7-11

Conference Symposium at the European (EURO) meeting of the International Union for the Study of Social Insects (IUSSI)

Are you working on social insects and climate change and want to present your recent work? Look no further and submit your abstract to the symposium "Coping with climate change: Responses and adaptations in social insects" to the EURO IUSSI held from July 7th to 11th 2024 at the University of Lausanne, Switzerland, following this link: https://wp.unil.ch/iussi-europe-2024/-registration/ We, Elizabeth Evesham, Richard J. Gill, Jonna Kulmuni, and Patrick Krapf, are thrilled to organise this symposium, in which we invite abstracts that encompass a variety of responses and adaptations to climate change in social insects. Please note, the abstract submission deadline is February 15th 2024 and early bird registration ends on April 15th 2024.

We look forward to seeing you at the EURO IUSSI at the University of Lausanne in Switzerland.

The organisers of the symposium, Elizabeth Evesham, Richard J. Gill, Jonna Kulmuni, and Patrick Krapf

Patrick Krapf <krapfpatrick@gmail.com>

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Ventura California GRC Speciation Mar1-7

It is my pleasure to announce that we have been approved to hold a new Gordon Research Conference on Speciation. This is scheduled for March 2 - 7 2025, at the Four Points Sheraton Holiday Inn in Ventura, California, USA. This will be preceded by a Gordon Research Seminar (GRS) March 1 - 2 for postdocs and graduate students, at the same location.

If you are interested in attending, please save the date! I would also encourage you to pass this information along to potentially interested participants.

Best wishes,

Dan Bolnick

Dr. Daniel I. Bolnick Professor, Ecology and Evolutionary Biology & Institute for Systems Genomics

daniel.bolnick@uconn.edu

MAIL TO: Department of Ecology and Evolutionary Biology 75 N. Eagleville Road, Unit 3043 University of Connecticut Storrs, CT 06269-3043, USA

Office Phone: 860-486-3156 Lab Phone: 860-486-3937 Cell Phone: 512-809-6217

Office:PBB 305C Lab: PBB 317&319; ATW 232, 234, 236 Lab website: https://bolnicklab.wordpress.com "Bolnick, Daniel" <daniel.bolnick@uconn.edu>

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Vienna EvolutionaryBiology Jun3-7

Dear PhD Researchers,

We are thrilled to invite you to the 29th European Meeting for PhD students in Evolutionary Biology Conference (EMPSEB29).Since its establishment in 1995, EMPSEB has been a valuable annual gathering for doctoral students from around the world.

EMPSEB29 is a conference organized by PhD students for PhD students working in the field of Ecology and Evolution.This year, EMPSEB29 will be conducted near Vienna and is scheduled for June 3-7, 2024. The conference will feature 4 professional invited speakers: Hanna Kokko, a theoretician;Andrea Fulgione, working on plant ecological genetics; Julia PawÂ^{3}owska, studying the interaction between bacteria and fungi; and Anders Bergstrom, working on the genetic diversity within and between dogs and wolves.

The registration will include accommodation in a serene setting of Austrian mountains with inclusive breakfast, lunch, and dinner throughout the conference, two work-

shops, an EDI panel discussion, two team-building activities, and access to the hotel's relaxation & well-being area. There will also be great prizes: 500 euros in cash for the best oral presentation, and one free Physalia-courses which accounts for around 500 euros for the best poster, and other surprises.

P.S. The abstract submission deadline is this Friday, the 19th of January, 23:59 Central European Time.

Check our website https://empseb29.pages.ista.ac.at/for more details, and contact us "empsebconf@gmail.com" if you have further questions.

Have a nice day,

EMPSEB29 organizing committee "

EMPSEB29 <empsebconf@gmail.com>

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Vienna QuantGenetics Jul22-26

Seventh International Conference of Quantitative Genetics (ICQG7), Vienna, July 22-26 2024.

Registration for ICQG7 is now open!

The deadline for abstracts is May 1st, 2024, and the registration deadline without an abstract is in the end of May, 2024. Please make sure to register early, we aim for 500-750 participants and places are going quickly!

Register here: https://icqg2024.ista.ac.at/registration/ Our list of invited speakers can be found here: https://icqg2024.ista.ac.at/contributed-talks/ ICQG7 will bring together researchers with a focus on theory and methodological development. We aim to represent the full range of applications of quantitative genetics - from plants, crops and trees to livestock to humans including common disease, to wild populations and laboratory model species. We aim to focus on the presentation and discussion of state-of-the-art results, theoretical developments and new methodologies, and we will prioritise unpublished research.

The conference provides a forum to highlight novel, principled statistical approaches which may be relevant to the problems faced across a range of applications. In the genomics era the integration of quantitative genetics theory across species applications is converging, and new quantitative trait phenotypes such as single cell gene expression are being studied. This represents an exciting time for understanding and translating the contribution of genetic variation of quantitative traits. Make sure you take part!

For more information, please visit our website https://icqg2024.ista.ac.at or get in touch with us at icqg7@ista.ac.at, or https://twitter.com/icqg2024 Conference organising committee:

Matthew Robinson (ISTA) Nicholas Barton (ISTA) Mihaela Pavlicev (Vienna University) Wolfram Weckwerth (Vienna University) Christian Schlötterer (VetMed University Vienna) Magnus Nordborg (Gregor Mendel Institute, Vienna) Kelly Swarts (Gregor Mendel Institute, Vienna) Frederic Berger (Gregor Mendel Institute, Vienna)

Prof. Matthew R. Robinson Medical Genomics Group|Institute of Science and Technology Austria|Am Campus 1, 3400 Klosterneuburg, Austria

https://ist.ac.at/en/research/robinson-group/ Tel: +43 2243 9000 2173 Email: matthew.robinson@ist.ac.at

Matthew Robinson <Matthew.Robinson@ist.ac.at>

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GradStudentPositions

AarhusU Denmark EvolutionSpeciesRanges

Applications are invited for a fully funded PhD fellowship/scholarship at Graduate School of Natural Sciences, Aarhus University, Denmark, within the Biology programme. The position is available from May 2024 or later.

Deadline: 1 February 2024 https://phd.nat.au.dk/-for-applicants/open-calls/february-2024/evolutionary-macroecology-of-species-geographic-ranges-in-palms
Title: Evolutionary macroecology of species' geographic ranges in palms

Research area and project description: The size of species' geographic ranges varies by orders of magnitude, with most species having small ranges, making them vulnerable to anthropogenic or natural extinction. To understand this vulnerability and successfully protect species against the current biodiversity crisis, a better understanding of the drivers of range size and rarity is needed. This is particularly true for the tropics, where the world's highest biodiversity and largest concentrations of of small-ranged species coincide with rapid rates of habitat loss.

Range size is known to depend on various ecological and evolutionary processes, but the interplay of those processes and the relative importance of ecology vs. evolution remains incompletely understood. Much of the existing evidence comes from vertebrate groups, which are well-served with data. Insights from other ecologically important groups with different life histories, such as plants, are urgently needed to fully understand the drivers of range size.

This project will use the palm family (Arecaceae), a well-established model group for tropical plant ecology and evolution, to jointly test ecological and evolutionary drivers of range size and rarity. In collaboration with palm experts from around the world, you will map the geographic distributions of palm species, integrating different types of data from various sources in a species distribution modeling (SDM) framework. You will then relate range size statistically to putative drivers (life history traits, evolutionary information etc.) to test different pathways to geographic rarity.

The project is an excellent opportunity to develop your quantitative skills in a renowned ecoinformatics environment. You will gain experience with compiling, managing and analysing large heterogeneous datasets; analysis of spatial data in a Geographic Information Systems (GIS) framework; advanced statistical modelling techniques. You will also develop your theoretical knowledge at the intersection of macroecology, phylogenomics and Global Change biogeography.

Supervisors: Wolf L. Eiserhardt (wolf.eiserhardt@bio.au.dk), Jens-Christian Svenning (svenning@bio.au.dk), Bill Baker (w.baker@kew.org)

Read more and appy here: https://phd.nat.au.dk/-for-applicants/open-calls/february-2024/evolutionary-macroecology-of-species-geographic-ranges-in-palms
Wolf Eiserhardt <wolf.eiserhardt@bio.au.dk>

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CharlesU Prague EvolutionGenomicsDeepseaFishVision

ERC_funded PhD position in the Fish Evolution research group at Department of Zoology, Charles University in Prague, Czech Republic:

Topic: Genomics of the visual sensory system in deep-sea fishes

Application deadline: 29th February 2024 (the candidate will be selected in March) Start date: 1st October 2024 Duration: 4 years Location: Department of Zoology, Charles University, Prague, Czech Republic, EU Research group: http://www.fishevo.com/ We are searching for a motivated candidate with interest in molecular and evolutionary genomic approaches to reveal the secrets of how fish see in the deep sea. The project focuses on evolution of the visual sensory system in fishes and count with application of transcriptomics (including the single-cell transcriptomics) of the retina. The successful candidate will join the Fish Evolution research group of Zuzana Musilova at Charles University in Prague and will study eyes of species with extreme adaptations, some of them with unknown mechanisms.

We offer: - an international research group with the ERC funding located in an inspiring historical city - a competitive salary sufficient to live in Prague - possibility to participate at international conferences, collaborations and in the field - wide selection of courses at the Faculty of Science

We seek: - a candidate with motivation and enthusiasm for biology, nature and science, and with ability and willingness to learn new approaches - fluency in English - a M.Sc. degree in biology or related fields (or to be finished by September 2024) - experience with molecular genetics, other laboratory techniques, as well as with some (basic) bioinformatics will be considered as beneficial

The project: Deep-sea fish have evolved extreme adaptations to their environment. Such as in their eyes with cone and rod cells responsible for photoreception. In several deep-sea fish lineages, a novel visual system with unknown mechanism has been discovered (https://www.science.org/doi/full/10.1126/-science.aav4632). Some species use multiple rhodopsins or have uncertain identity of the cones and rods, something very unusual for vertebrates. The main goal of this project funded by the ERC Consolidator grant is to study these adaptations mainly from a single-cell level perspective. While the focus is mainly on molecular evolution, we generally aim to interpret cool stories out of our findings mainly in the context of the evolution, fishes and their life. The candidate is expected to present about his/her project at international conferences and will be authoring research publications. All nations applicable.

All questions and applications (CV + half-page motivation letter + contact details for two persons who can be asked for a reference) should be sent directly to Zuzana Musilova (zuzmus[AT]gmail.com or zuzana.musilova[AT] natur.cuni.cz)

THANK YOU FOR YOUR APPLICATION:-)

PS: we will also look for a postdoc in another post:-)

Zuzana Musilova, PhD. (zuzmus@gmail.com)

Department of Zoology Charles University Vinicna 7, CZ-128 44 Prague Czech Republic - Europe

zuzmus <zuzmus@gmail.com>

CharlesU Prague Two MolecularConvergentEvolution

Graduate position at Charles University Prague focused on molecular convergent evolution

The Evolutionary and Ecological Immunology (EEI) group at the Faculty of Science, Charles University, Prague, is opening a four-year fully funded STARS PhD position in avian evolutionary immunology (deadline for applications: 13 March 2024).

PhD project topic: ???Does convergent evolution of molecular phenotypes shape immune responses in birds????

Emerging diseases represent an important threat to human health. Many birds (similar to bats) are key vectors of zoonotic infections. While presently underdeveloped, evolutionary research in molecular convergence (sharing of molecular adaptations) could aid in showing zoonotic potentials in different hosts. In silico detection of convergence can predict functionally relevant sites diversifying immune genes across species. The objective of this project is to identify convergent adaptations mod-

ulating inflammatory responses to different pathogens in birds. The main aim is to provide a proof of concept by testing the functional effects of selected convergent variants on immune responsiveness (in vitro / in vivo). The applicant will resolve 3 key challenges: 1. reveal how frequent molecular convergence is across different groups of inflammatory genes; 2. in selected candidates test for the functional effects of variants on immune responsiveness; 3. identify links between specific variants and compositions of microbial communities inhabiting the hosts. By exploring their links to avian microbiota, the work will allow prediction of host-symbiont associations. The project will take the advantage of a cutting-edge multidisciplinary approach linking biodiversity-based evolutionary analysis with structural modelling, searching for predictive tools for understanding host variation in disease susceptibility.

Requirements: Candidates should have a strong interest in avian evolutionary biology, immunology and molecular genetics. MSc degree in biology (immunology, zoology, genetics or related fields) and good English language skills required. For the formal requirement please check the STRAS web page (http://www.stars-natur.cz/).

Offers: We offer a fully funded PhD position for four years starting from 1 October 2024. The STARS program guarantees that the student will receive at least 20500 CZK/month (equivalent of cca 800 EUR/month). Additional salary can be negotiated based on skills and qualification. The PhD student will be part of a young and enthusiastic interdisciplinary team (https://web.natur.cuni.cz/zoology/eei). Despite close collaboration with several co-workers, the project allows independent intellectual input. We expect at least three articles being published in the course of the study in international peer-review journals. Active participation at international scientific conferences will be encouraged and supported.

Application: Applications are submitted through the STARS application system (https://stars-natur.cz/phd-positions/biology/does-convergent-evolution-of-molecular-phenotypes-shape-immune-responses-in-birds?back=1420q). Applications delivered via postal service or e-mail will not be considered.

Links: For further information see the EEI group web page (https://web.natur.cuni.cz/zoology/eei), STARS web page (http://www.stars-natur.cz/) and the web of the Faculty of Science, Charles University (https://www.natur.cuni.cz/eng?set_language=en) or contact Prof. Michal Vinkler at michal.vinkler@natur.cuni.cz (no applications).

We look forward to receiving your on-line application until 13 March 2024. Kind regards, Michal Vinkler

doc. RNDr. Michal Vinkler, PhD

Vedouc?? Katedry zoologie P????rodov??deck?? fakulta, Univerzita Karlova Vini??n?? 7, 128 44 Praha 2 ??esk?? republika

Head of the Department of Zoology Faculty of Science, Charles University Vinicna 7, CZ 128 44 Praha 2 Czech Republic, EU

Laboratory for Evolutionary and Ecological Immunology Animal Evolutionary Biology Unit

tel: +420221951845 e-mail:michal.vinkler@natur.cuni.cz

https://www.natur.cuni.cz/biologie/zoologie https://www.natur.cuni.cz/biology/zoology http://web.natur.cuni.cz/zoology/eei/

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Graduate position at Charles University Prague focused on molecular convergent evolution The Evolutionary and Ecological Immunology (EEI)

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CharlesU Two PlantEvolution

PhD student project

Reproduction systems and reproductive success in tropical alpine plants

Supervisor: Patrik Mráz (mrazpat@natur.cuni.cz) Cosupervisor: Petr Sklenáø (petr.sklenar@natur.cuni.cz) Research group: Plant Systematics and Ecology (Department of Botany) Source of financial support: MÂMT LUAUS23043 (1.4. 2023 - 31.12. 2026)

A PhD position is open for a motivated student in the field of Plant biology. The position is part of a project on Plant-pollinator networks in mountain ecosystems. Namely, the project will compare the dynamics of the plant-pollinator networks between aseasonal tropical high mountains (the equatorial Andes; data will be collected by the Czech-Ecuadorian research team) with plant-pollinator networks in seasonal temperate mountains (Rocky Mts. Colorado, USA; data will be collected by US colleagues).

The PhD position and the related research project are based in Prague. The student is expected to collect

field data on plant reproduction in high-elevation environments (i.e., páramo) during an extended period of time (several months) in Ecuador. The fieldwork will involve studying temporal flowering patterns of páramo plant species, along with experimental manipulation of pollination success and examination of reproduction systems.

Candidates are expected to: - have obtained a Master degree (or equivalent) in botany or ecology; - have solid statistical and data analytical skills; - be independent regarding (field) work organization; - communicate in English and Spanish.

Salary of approx. 1000 EUR/month is offered for the period of project duration, starting between July-October 2024.

Send your motivation letter including your CV and contact details of two referees as a single pdf file by e-mailto mrazpat@natur.cuni.cz or petr.sklenar@natur.cuni.cz before the 29th February 2024.

Patrik Mráz Herbarium PRC & Department of Botany

Charles University,Faculty of Science Benátská 2, 128 00 Praha 2 CZECHIA Tel.: +420 221 95 1642 https://botany.natur.cuni.cz/prc/?lang=en https://botany.natur.cuni.cz/apomixisgroup/ https://botany.natur.cuni.cz/mraz —

PhD position in Plant Evolutionary Biology The Department of Botany, Charles University, Prague, Czech Republic, offers a PhD position in Plant Evolutionary Biology. The preferred start date for this position is the 1st April 2024 (with some flexibility).

The PhD position aims to unravel the consequences of whole genome multiplication (WGM), i.e. polyploidisation, on multiple phenotypic, phytohormonal and genomic traits that alter the reproductive strategies of autopolyploid plants and determine their evolutionary trajectory. The PhD position is part of a project funded by the Czech Science Foundation (GAÃR) and led by Patrik Mráz (Department of Botany) with the participation of experts in plant physiology, embryology and bioinformatics. Polyploidisation is a key evolutionary mechanism that can lead to instantaneous multiple changes manifested at different structural, developmental and functional levels, from genes to phenotypic traits that interact directly with the surrounding environment. Despite the widespread occurrence of polyploidy in vascular plants, we still know little about the direct phenotypic effects of WGM, the underlying physiological and transcriptomic patterns, and the fitness consequences.

We will use Pilosella rhodopea (Asteraceae, Compositae), a species that forms the largest primary contact zone of diploids and recurrent autopolyploids ever recorded in angiosperms. Although WGM severely disrupts sexual reproduction in autopolyploids, it enhances vegetative reproduction both quantitatively and qualitatively to such an extent that it literally changes the game by allowing autopolyploids to successfully establish and persist, with putative strong effects on their spatial clonal structure and ramet age.

The successful PhD student will investigate structural and phytohormonal aspects of two newly expressed clonal traits - root buds and aposporic initials; study the expression and inheritance of these traits using experimental crosses; be involved in field work in the Balkan Mountains and in the transcriptomic part of the project.

Profile & Qualifications Highly motivated applicants with excellent communication and English skills and a strong interest in evolutionary biology and ecology should hold an MSc or equivalent degree in biology. Previous experience with histological, cytogenetic and molecular techniques is an advantage but not a requirement.

Funding Successful candidate will be supported by a three-year project salary (2024-2026) from the Czech Science Foundation (GAÃR). In addition, a four-year PhD scholarship will be provided by the Faculty of Science.

How to apply

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Eawag EvoEcolOfInsectSubsidies

Two graduate student positions in the evolutionary ecology of aquatic-to-terrestrial subsidies

The Food Web Ecophysiology group at Eawag (Swiss Federal Institute of Aquatic Science and Technology) has two open PhD positions to study how climate warming influences the evolutionary ecology of aquatic-to-terrestrial insect subsidies, such as their phenology (i.e., seasonal timing), biomass, and nutritional quality.

The goal of the overall Swiss National Science Foundation-funded project is to predict how changes to the nutritional landscape with climate change may

threaten terrestrial consumers, like birds, bats, and spiders, that rely upon subsidies of aquatic insects. The goals of the two PhD projects are to understand: 1) how the species composition of aquatic insects along thermal gradients influences subsidy timing, magnitude, and nutritional content, and 2) intraspecific variation in aquatic insect phenology, biomass, and nutritional content along thermal gradients. Intensive seasonal fieldwork to capture phenological data will be conducted along elevational thermal gradients within Central Switzerland as well as either an urban heat island gradient in Belgium or a geothermal gradient in Iceland. Captive-rearing experiments will allow us to understand finer scale intraspecific variation due to temperature and food quality.

Students will be housed within the Department of Fish Ecology and Evolution (FishEc: https://-www.eawag.ch/en/department/fishec/) located on the shores of Lake Lucerne in Kastanienbaum, Switzerland, and will receive degrees from ETH Zürich in the department of Environmental Systems Science (USYS: https://usys.ethz.ch/en/). FishEc is home to five additional research groups focused on numerous facets of aquatic ecology and evolution including ecosystem ecology, adaptation and evolutionary diversification, migration and dispersal, genomics, and bioinformatics. We value personal diversity as well as biodiversity in FishEc, believing that science functions best when bringing together people with a diversity of perspectives and personal experiences, and we are committed to creating a welcoming and inclusive environment for researchers from across the world. Outside of the FishEc department, students will also have opportunities work across Eawag with the Department of Surface Waters located in Kastanienbaum as well as with the Department of Aquatic Ecology located in Dübendorf.

Working independently as well as part of a small team, being self-motivated when it comes to developing new skills or exploring new topics, and having a resilient, growth-based mindset are necessary qualifications for an ideal candidate. You will need to work under sometimes harsh field conditions, cope with long–term maintenance of experiments, and perform high-precision lab analyses. Ideally, you should also have some prior wet lab experience and comfort with performing lab work independently. You also need excellent communication and data analysis skills. The lab and departmental working languages are English and knowledge of or interest in learning basic German/Swiss German are assets for fieldwork and life outside of the lab.

The duration of two the positions are four years. Salaries are according to ETH-scale. Candidates must qualify for admission to the ETH PhD program: https://-www.ethz.ch/en/doctorate.html (i.e., have a master degree by start of position).

Future PhD students are invited to learn more about the overall goals of project at https://cornelia-twining.squarespace.com/nutriphenol and to apply here: https://apply.refline.ch/673277/1128/pub/1/-index.html including adding a PDF containing a representative scientific writing sample (e.g., a final report for a class, thesis, manuscript draft, and/or published paper).

For questions, please email Dr. Lily Twining at: cornelia.twining@eawag.ch

Evaluation of applications starts 1 March 2024, and continues until the position is filled. The start date is flexible, but ideally would begin by 1 September 2024.

Lily Twining <cornelia.twining@gmail.com>

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ImperialC London EvolveMicrobesPollinatorHealth

Exploring the boom and bust of metabolic functional gains and decay in evolving pollinator holobionts

Fully funded 4 year PhD from the Leverhulme centre for the holobiont.

Based in the Graystock lab at the Silwood Park campus of Imperial College London, UK, the project will seek to understand evolutionary dynamics of traits in fluctuating environments. To explore this question, the student will evolve various bee-associated microbial communities to fluctuating stressors using state-of-the-art automated bioreactors and within bees - their usual host/holobiont environments.

Frequently collected samples throughout the directed evolution experiments will have their metabolomes analysed to reveal metabolic trait evolution during times of high and low population stress. This is an exciting opportunity not only to evolve organisms using directed evolution assays but, crucially, to also identify and quantify the changing metabolic dynamics over time.

Application deadline: 15th January 2024 For specific project details, eligibility, and application information please see:

https://www.findaphd.com/phds/project/exploring-

the-boom-and-bust-of-metabolic-functional-gains-and-decay-in-evolving-holobionts/?p166551 ï¿½

"Graystock, Peter" <p.graystock@imperial.ac.uk>

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INRA France HostSymbiontEvolution

PhD position

Host:INRAE UMR CARRTEL - Alpine Center for research on trophic networks and limnic ecosystems 74200 Thonon-les-Bains, France

Co-supervisors: Nicolas Tromas, Isabelle Domaizon, INRAE, CARRTEL

Title: The role of cyanobacteria-associated bacteria in harmful algal blooms

Toxic algal blooms occur in freshwaters around the world, posing both a nuisance and a threat to public health (1). Monitoring, forecasting and preventing these blooms is therefore a priority, but also a challenge. Indeed, the mechanisms involved in algal dynamics and blooms are still incompletely understood, mostly because bloom dynamics are controlled by the interaction of abiotic (physico-chemical) factors with a complex biotic community composed of genetically diverse microbes. A potentially important cause of variability in these predictions lies in the micro-scale interactions between microalgae and their associated bacteria (AB), which can influence ecosystem functioning and biogeochemical cycles through metabolite exchanges and complex ecological processes (1). The AB of these microalgae/Cyanobacteria has very recently been recognized as a key factor in understanding algal dynamics (2).

Cyanobacterial colonies provide as a simple model of how host-symbiont interactions evolve, and how they vary over time and according to ecological conditions (3). Understanding the contributions of these AB (i.e microbiome) to cyanobacterial growth could have implications for our ability to predict and control harmful blooms. In this context, the objectives of this project will be: (i) to clarify the links between microbial diversity and phytoplankton composition-production and identify the composition of different algal microbiomes; (ii) to characterize the relationship between microalgae and their microbiome and finally (iii) to evaluate how the AB could provide a better understanding on the bloom composition and the resilience of algal assemblages to environmental stresses.

Keywords: Cyanobacteria, Environmental microbiology, Environmental genomics, Biotic interactions, Experimental evolution

References:

1. Ahern et al 2021 (https://www.pnas.org/doi/-10.1073/pnas.2105207118)

2. Pound et al 2021 (https://pubs.acs.org/doi/10.1021/-acs.est.1c04207)

3. Perrez-Carrascal et al 2021 (https://-microbiomejournal.biomedcentral.com/articles/-10.1186/s40168-021-01140-8)

Research activities

-Field and lab work:

Lake(s) sampling

Isolation of microalgal/cyanobacterial colonies + Culture

Isolation of microbiome

DNA extraction / PCR

-Bioinformatic activities:

Metagenomic to characterize the composition of the microbiome

Metagenomic and metatranscriptomic to determine the evolutionary/ecological response of microalgae/Cyanobacteria to microbiome presence

Additional information:

CARRTEL is a joint research unit (UMR) of INRAE and the University of Savoie Mont Blanc (USMB). CARRTEL has around 40 permanent scientists dedicated to the study of lake ecosystems in interaction with their catchments. The unit has a strong expertise in plankton ecology, algal diversity and the application of molecular tools in aquatic ecology. The PhD student will conduct most of his/her work at CARRTEL and will be involved in an international collaborative network in the field of cyanobacterial ecology and ecogenomics.

Eligibility

The successful applicant will have a Msc degree in Limnology, environmental microbiology (or equivalent)

The ideal candidates would have:

- Experience in microbial culture (Cyanobacterial culture would be a plus)

- Experience in molecular biology

- Experience with bioinformatics analyses, including programming in any scripting language (e.g., UNIX, R and/or Python), or a strong willingness to learn.

- A strong commitment to conducting high-quality research.

- Good communication and interpersonal skills (French and/or English).

To apply:

Please send your motivation letter including a detailed curriculum vitae describing any previous research experience and the contact details (e-mail and phone number) of at least two academic referees (a single pdf file would be great) by e-mail to Nicolas Tromas (tromas.nicolas@gmail.com) before the 1st of July 2024. Successful candidate will be supported by a three-year project salary. The candidate will be affiliated withED SIE doctoral school at the Université Savoie Mont Blanc.

Nicolas Tromas <tromas.nicolas@gmail.com>

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KielU Two EvolutionaryMicrobiology

In the Evolutionary Microbiology Group of Prof. Tal Dagan at the Institute of General Microbiology at Kiel University, Germany, a PhD position (m/w/d) in computational evolutionary microbiology is available for a period of 36 months at the earliest possible date. If the legal requirements under collective bargaining law are met, the tariff grouping is carried out up to pay scale 65% 13 TV-L.

The Evolutionary Microbiology Group research interests are focused on microbial genome evolution with an emphasis on the study of horizontal DNA transfer. In our research we use both computational and experimental approaches (see www.uni-kiel.de/genomik). Well-motivated and highly-qualified students from all countries are welcome to apply. We are looking forward to your application for a PhD fellowship in the beautiful landscape of Northern Germany.

Your profile: - Master of Science degree in Molecular Evolution / Microbiology / Bioinformatics or related fields. - Experience in programming (e.g., in Python) and analysis of genomic data. - Any of following expertise is an advantage: biostatistical analysis (e.g., with R), phylogenetics, comparative genomics. - Good oral and written communication skills in English. - Motivation to learn and research topics in basic science.

The working language of the group is English

The position is offered for 3 years with a possibility of 1 year extension. The position start date is flexible between May-September 2024. The project is funded via an ERC Consolidator grant on the evolution of prokaryotic plasmids. The recruited student is expected to work on a PhD thesis on the topic of plasmid genome evolution. See related publications: doi: 10.1371/journal.pgen.1009656 and doi: 10.1093/molbev/msab283. The position will be integrated within the graduate school Translational Evolution (https://transevo.de/).

The Christian-Albrechts-University sees itself as a modern and cosmopolitan employer. We welcome your application regardless of your age, gender, cultural and social background, religion, ideology, disability or sexual identity. We promote equality of the sexes. The Christian-Albrechts-University is committed to the employment of people with disabilities. Preference will be given to applications from severely handicapped persons and persons of equal standing, provided they are suitable. We expressly welcome applications from people with a migration background.

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

Applications should include: (1) A letter of motivation (max 2 pages, Arial 11, line spacing 1.15). In your motivation letter, please explain how your background fits the required profile and how your research interested align with the group research focus. (2) Curriculum vita, including names and contact details of 2 academic referees. (3) Master certificate (or current grades transcript in case of ongoing studies) These should be sent by email to Prof. Tal Dagan as a single PDF. Please use 'pMolEvol Computational PhD application ' [your name]' as a subject.

Please, refrain from sending us application photos.

Application deadline: 10.3.2024

Prof. Dr. Tal Dagan

Genomic Microbiology Group Institute of General Microbiology Christian-Albrechts-University Kiel ZMB, Am Botanischen Garten 11 24118 Kiel, Germany

Tel: +49 431 880 5712 Fax: +49 431 880 5747 e-mail: tdagan@ifam.uni-kiel.de web: www.uni-kiel.de/genomik

In the Evolutionary Microbiology Group of Prof. Tal Dagan at the Institute of General Microbiology at Kiel University, Germany, a PhD position (m/w/d) in microbial evolutionary genetics is available for a period of 36 months at the earliest possible date. If the legal requirements under collective bargaining law are met, the tariff grouping is carried out up to pay scale 65% 13 TV-L.

The Evolutionary Microbiology Group research interests are focused on microbial genome evolution with an emphasis on the study of horizontal DNA transfer. In our research we use both computational and experimental approaches (see www.uni-kiel.de/genomik). Well-motivated and highly-qualified students from all countries are welcome to apply. We are looking forward to your application for a PhD fellowship in the beautiful landscape of Northern Germany.

Your profile: - Master of Science degree in Microbiology or Molecular Biology. - Experience in molecular biology and/or bacterial genetics, e.g., recombinant DNA techniques, plasmid engineering, generation of knockout mutant strains. - Any of following expertise is an advantage: background in evolutionary biology and/or population genetics, performance of

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Leiden Netherlands PlantEvolution

Title: Taxonomy, evolution and historical biogeography of selected genera in the Commelinaceae.

About Naturalis Naturalis Biodiversity Center in Leiden is the Dutch national research institute for biodiversity and systematics. With our collection of 42 million specimens, one of the world's largest natural history collections, and our state-of-the-art research facilities we offer the (inter)national research infrastructure for species identification and monitoring (for example in the ARISE and DiSSCo projects). We closely collaborate with many Dutch universities, research institutes, industry, and government. We host over 120 researchers including 15 academia embedded professors and 40 PhD students. We present the history of our planet, and the diversity of life on Earth, through permanent and temporary museum exhibitions, educational programmes, and online presence, with more than 400,000 visitors per year. All in all, a unique combination of science and culture in the Netherlands and elsewhere in the world!

The research department is organised in 8 research groups comprising researchers and their postdocs and PhD-students. The current position will be in the research group Tropical Botany. Naturalis has a completely new lab building, including state-of-the-art molecular facilities, microCT scanners and electron microscopy (SEM and TEM).

Position Commelinaceae is a family of perennial herbs distributed mainly in the tropics. A recent phylogenomic study (Zuntini et al. 2021) provided a robust classification for the family, from which evolutionary and biogeographical hypotheses can be tested. Species recognition, however, depends heavily on the availability of identification keys and image material. The PhD candidate in Naturalis will address taxonomy and species recognition with a revision of the family for Flora Malesiana, and use a combination of morphology and molecular data, at species level, to study trait evolution, diversification and historical biogeography of selected pantropical taxa. The PhD candidate will become a member of the Tropical Botany group and will be supervised by Dr. Sylvia Mota de Oliveira and co-supervised by Dr. Leni Duistermaat. The candidate will receive the PhD degree at Groningen University and Prof. dr. Rampal Etienne will be the promotor.

General requirements and skills The candidate must have an MSc degree in Biology with a strong interest in plant systematics. Preferably, the candidate has experience with herbarium work, taxonomy, collecting (in the tropics), molecular lab work, phylogenetic and/or historical biogeographic analyses. Excellent knowledge of the English language (written and verbal) is essential, as well as a scientific and critical attitude, outstanding time management and organisational skills, and the ability to work independently as well as collaboratively within the project consortium and the Naturalis research group Tropical Botany. The candidate should have good communication skills and be enthusiastic to contribute to knowledge dissemination and outreach activities within the project. Teaching experience is an advantage as the candidate will do a limited amount of teaching.

We offer A contract (36 hours per week) for a period of one year, to be extended with three more years after a successful first year evaluation, and a monthly starting salary of euro 3,187.- gross. Additionally, the PhD candidate gets an allowance for travel expenses, holiday allowance (8%) and year-end bonus (3.4%). The starting date is preferably early 2024. The successful candidate will be employed by Naturalis in Leiden. Nat-

uralis Biodiversity Center offers an inspiring working atmosphere with effective and efficient supervision of our PhD candidates. Our Research Coordination Office also provides ample support to our scientific staff. Our institute promotes gender equality and wants to enhance the diversity of staff members. Feel free to contact Sylvia Mota de Oliveira with questions about the position: sylvia.motadeoliveira@naturalis.nl. For procedural questions related to the application please contact HR: sollicitaties@naturalis.nl.

Procedure

Applicants are invited to submit their application in one pdf, including a cover/motivation letter (max. 2 pages) and CV (max. 3 pages) and the names and contact details of two referees. Please use this form for your application no later than 19 January 2024.

Naturalis endorses the Cultural Diversity Code. In the case of equal suitability, preference is given to the candidate who reinforces diversity within the team.

Met vriendelijke groet,

Sylvia Mota de Oliveira Researcher

sylvia.motadeoliveira@naturalis.nl - www.naturalis.nl Darwinweg 2, 2333 CR Leiden Postbus 9517, 2300 RA Leiden

Sylvia Mota de Oliveira <sylvia.motadeoliveira@naturalis.nl>

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LouisianaStateU Two ConservationGenomics

PhD position in avian conservation genomics: Inquiries are invited for a PhD assistantship to examine the effects of native plants and mosquito abatement on diet and fitness in Carolina Chickadees and Carolina Wrens in urban yards of Baton Rouge, Louisiana. Additional questions could be included depending on the candidate's experience and interest. Prospective students would need to apply for and compete against other applicants for a Gilbert Assistantship in the LSU School of Renewable Natural Resources, due 1 Feb 2024. A Gilbert Assistantship covers stipend (~30K per year), tuition, fees, and up to 20K in research costs. Qualifications: an excellent academic record, experience with genetic analyses (lab and statistical) including DNA metabarcoding, experience coordinating and collecting field data (including bird handling), excellent writing and organizational skills, and ability to work in a collaborative group. Research will be in collaboration with Dr. Erik Johnson, Director of Conservation Science, Audubon Delta, the regional field office of the National Audubon Society. Applicants interested in this opportunity should first contact Dr. Sabrina Taylor, School of Renewable Natural Resources, Louisiana State University, staylor at lsu.edu, and should send a cover letter, CV, and a list of 3 references (with phone #s and/or email addresses). Equal Employment Opportunity applies to this position.

PhD position in conservation genomics: Inquiries are invited for a PhD assistantship to examine tiger genomics in US captive tigers (stipend ~30K per year). Qualifications: an excellent academic record, experience with genetic analyses (lab and bioinformatics) ideally including whole genome analyses, excellent writing and organizational skills, and ability to work in a collaborative group. Research will be in collaboration with Dr. Leslie Lyons, Professor, University of Missouri. Interested candidates should contact Dr. Sabrina Taylor, School of Renewable Natural Resources, Louisiana State University, staylor at lsu.edu, and should send a cover letter, CV, and a list of 3 references (with phone #s and/or email addresses). Equal Employment Opportunity applies to this position.

Cheers, S. Sabrina Taylor Weaver Brothers Distinguished Professor School of Renewable Natural Resources RNR Bldg. Room 227 (Office 331) Louisiana State University and AgCenter Baton Rouge, LA, 70803, USA staylor at lsu.edu 225-578-4137, fax 4227 https://faculty.lsu.edu/taylor/ "Taylor, Sabrina S" <staylor@agcenter.lsu.edu>

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LundU SystematicsBiogeographyDioecy

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

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

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

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

The goal of this PhD project is to provide the macroevolutionary context for understanding the evolution of dioecy in the Hawaiian Wikstroemia by clarifying both the systematics of the Hawaiian clade within the genus, and the biogeography of sex-linked genome regions and sex-determining genes within the Hawaiian radiation. The major aims of the project are to (i) clarify the phylogenetic relationships among extant Wikstroemia species, including estimating the timing of colonization of the Hawaiian archipelago by a hermaphrodite ancestor, and placing the Hawaiian clade within the broader genus-level phylogeny; (ii) perform a phylogenomic and biogeographic analysis of sex-linked genome regions for each form of dioecy, with the aim of reconstructing the origin and evolution of the different sex-linked genome regions both by a formal historical biogeographical analysis, and also (iii) by studying congruence/discordance between the species tree for the Hawaiian radiation-level phylogeny and gene trees for coding sequences within the sex-linked genome region for each form of dioecy. The Hawaiian Wikstroemia have a fascinating evolutionary history, with many possible directions for related systematic and biogeographic questions, depending on the interests of the student.

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

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

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

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

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

MacquarieU Two PlantInvasion

Two PhD scholarships - Macquarie University, School of Natural Sciences: Ecological interaction networks as tools to assess and mitigate the ecosystem impacts of plant invasion.

Invasive alien species impact most habitats on Earth. In an ecological context, we know surprisingly little about the overall consequences of these species for native communities, with most studies focused on invader impacts on individual taxa or ecosystem functions. This paucity of data reflects the inherent difficulties associated with studying dynamic community processes and the complex biotic interactions that underlie them. A promising approach is the use of ecological interaction networks to assess invader impacts and how to mitigate them.

Two fully Australian Research Council-funded PhD projects are available in the School of Natural Sciences at Macquarie University to investigate the functional network ecology of plants and soil microorganisms. The project will involve the use of plant trait, plant and microbial physiological data, along with genomic approaches within field and experimental laboratory settings. The overall aim of this project is to determine whether ecological interaction networks can (1) predict invasion impacts on native communities and (2) inform ecological restoration. Successful applicants are expected to start by August 2024.

PhD students will join the Invasive Plant Ecology and Evolution Lab (see www.lerouxlab.com for more information) at Macquarie University and will collaborate with researchers in Spain and South Africa. PhD scholarships and all project costs are fully funded.

The call is open to both domestic and international applicants. Interested applicants will be highly motivated and will hold a Masters degree in the fields of genetics (DNA meta barcoding or metagenomics), plant physiology, microbiology, or evolutionary biology. Applicants will have demonstratable skills in next generation sequencing bioinformatics and/or genetic analyses of microbial communities and/or analyses of plant physiological data and/or network ecology. This project offers field work opportunities in Western Australia, Spain, and South Africa.

For more information or to apply, please send a cover letter detailing your research interests, a CV, and contact details of two referees to Professor Jaco Le Roux (jaco.leroux@mq.edu.au) by 20 February 2024.

Professor Jaco Le Roux School of Natural Sciences|E8B-356 Macquarie University, New South Wales 2109, Australia Office +61 2 9850 4410

Honorary Professor Department of Botany and Zoology Stellenbosch University, South Africa

Website|Twitter|Facebook

Associate Editor:Biological Invasions |Austral Ecology |Oecologia Woody Weeds in East Africa: woodyweeds.org

The Evolutionary Ecology of Invasive Species

Wattles - Australian Acacia Species Around the World

I acknowledge the traditional custodians of the Macquarie University land,the Wallumattagal clan of the Dharug nation, whose cultures and customs have nurtured, and continue to nurture, this land, since time immemorial. I pay my respects to Elders past and present.

Jaco Le Roux <jaco.leroux@mq.edu.au>

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MaxPlanck Ploen EvolutionaryBiology

Max Planck Institute Plï¿½n.IMPRS EvolBio positions 2024

IMPRS EvolBio offers a variety of doctoral positions at the Max Planck Institute for Evolutionary Biology Plï¿½n, Germany, starting in September 2024.

The program includes a six-month training period followed by a doctoral project of three years. The doctoral researchers are mentored by their principal investigator and an individual thesis advisory committee. Training includes seminars, courses (including soft-skill courses), workshops, an annual retreat, opportunities to attend international meetings and visit collaborating laboratories. The language of the graduate school is English. German language courses for beginners are offered to foreign researchers.

All positions are fully funded for three and a half years. Funding beyond this time period may be available through departmental awards or from the supervisor.

Further information about our graduate school, program and application details here http://-www.evolbio.mpg.de/imprs Motivated, career-minded, and curiosity-driven individuals with a passion for evolutionary biology are welcome to apply now. We request to establish first contact with the principal investigators by 1st February. The formal application has to be submitted by 18th February.

Angela Donner <donner@evolbio.mpg.de>

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McMasterU AncientDNA

Ancient Sedimentary DNA Graduate Student

The Golding and Poinar labs are looking for a Master's Student (MSc) to work on sedimentary DNA from ancient permafrost in the attempt to reconstruct past ecosystems to help better contextualize the causes and consequences of late Pleistocene extinctions as well as microbial ecology during major climate upheaval.

The student will work alongside others in both bioinformatics as well as ancient DNA methodology development and implementation. We are actively establishing new methods for the recovery of minute traces of DNA from ancient permafrost and lake sediments.

This project will entail developing novel methods for organic residue recovery, DNA based capture and next-generation sequencing followed by bioinformatic analysis for reconstructing past environments over the last several hundred thousand years from Yukon and Alaska.

For more information see the following papers on environmental reconstruction and microbial ecological reconstructions.

Eligibility

The successful applicant will have a BSc involving some experience in bioinformatics, molecular evolution and/or population genetics.

The ideal candidates would have: - A BSc in a field of biology and/or anthropology - A strong commitment to conducting high-quality research. - A willingness to consider quantitative aspects of biology is required. - A strong interest in ancient DNA Genomics and Molecular Evolution. - Experiences with sedaDNA, eDNA or other forms of DNA would be considered a plus. - Experience with bioinformatics analyses, including programming in any scripting language (e.g., UNIX, R, PERL and/or Python), or a strong willingness to learn. - Good communication and interpersonal skills.

Black and Indigenous students, People of Colour, and members of the LGBTQ2+ are encouraged to apply.

Stipend support This position is primarily funded from NSERC Discovery grants and will require the student to obtain a Teaching Assistantship from McMaster University to supplement funding. Students are strongly encouraged to apply for external scholarships.

To apply

Send an email to Golding@McMaster.CA or PoinarH@McMaster.CA with subject header "Bioinformatics MSc/PhD student" and with a single PDF that contains, 1) A statement clearly outlining your research interests, career goals, and how your previous experiences and training have prepared you for a MSc in this field. 2) Your CV 3) Unofficial copies of your undergraduate transcripts

Start date is anticipated to be May or September 2024 but is flexible for the right candidate.

"Poinar, Hendrik" <poinarh@mcmaster.ca>

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

MichiganTechU PlantEvolution

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

Our research group seeks to better understand the factors that influence how plants interact with their abiotic and biotic environments and the ecological and evolutionary responses of these interactions. The specific project in which we are advertising for seeks to examine whether and how nutrient availabilities and/or disturbances affect plants differently based upon their genome sizes and whether plant genome size variation influences plant functional attributes, plant species interactions (with antagonists and mutualists) and the structuring of molecular (genomic and transcriptomic) and multi-species biodiversity patterns.

Position Details:

?? Within this general framework, it is expected that the student will lead the development of their specific

research questions and projects in alignment with their interests and with guidance from Dr. Hersch-Green.

?? Student will have opportunities to conduct experiments in lab, greenhouse, and field settings (https://-youtu.be/H6MtEnAIyi0), work with a fun, supportive lab group who has ongoing collaborations with national and international scientists (see: https://nutnet.org/-home OR https://dragnetglobal.weebly.com/), and participate in outreach and scientific communication activities.

?? The anticipated start date is Spring/Fall 2024.

?? Funding (including tuition) is available from an NSF-funded project (link to full abstract).

Qualifications:

?? Required: (1) A MS in the fields of ecology or evolutionary biology or a closely related discipline. (2) Prior work experience in a field setting or with molecular/transcriptome work. (3) Good (demonstratable) English scientific writing skills. (4) Ability to work well independently and as part of a team.

?? Desired: (1) good quantitative/statistics background. (2) Interest in community outreach as student will be trained in scientific teaching and communication skills and will have the opportunity to work with G6-12 and undergraduate students. (3) Commitment to promoting diversity, equity, and inclusion. (4) A US driver???s license upon starting.

Qualified and interested candidates should email Dr. Erika Hersch-Green (eherschg@mtu.edu) to express interest. In this email: include an updated CV and a statement of interest describing what area(s) of research you are most interested in exploring and any previous experience and/or skills related to these interests and the required and desired qualifications. I will then contact candidates for further discussion - at which time a formal application process will be discussed. Review of applications will begin January 31, 2024, and the position will remain open until filled. Individuals from traditionally excluded groups in science and higher education are encouraged to apply.

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

Erika Hersch-Green <eherschg@mtu.edu>

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

MonashU MicrobialExptEvolution

Experimental Evolution of Microbial Communities

Two fully funded PhD positions are available in the research group of Dr. Mike McDonald to undertake research at the interface of experimental evolution and microbial community ecology. Our vision is to use experimental evolution and ecology to understand what happens in natural microbial communities. We do this by bringing our experimental models increasingly closer to the complexity of natural systems. See our published studies < https://scholar.google.com.au/-citations?user=3D5JLRdvAAAAAJ&hl=3Den > led by previous PhD students, tracking multispecies coevolution and horizontal gene transfer in the lab.

Now we are carrying out evolution experiments with new plant-microbe and animal-microbe experimental systems we have developed in the lab. This project will involve the handling and passaging of bacteria, amplicon and whole genome sequencing to track ecological and evolutionary dynamics, and evolutionary and ecological theory.

The ideal candidate for this scholarship will have either basic wet lab skills or experience with computer programming or statistical analysis. A background in evolutionary biology is of an advantage, but not strictly necessary.

The studentship covers all university fees and includes an annual stipend of $35,000 AUD to cover living costs. The Monash University PhD program < https:/-/www.monash.edu/graduate-research/study/phd > has been designed for the multiple potential career outcomes of the 21st century PhD graduate, including extensive training and support.

Applicants must have a BSc(Hons) or MSc degree in a relevant discipline, where the degree has a full-time research component and a thesis. Both local and international students are encouraged to apply.

Monash University is located in Melbourne- a city consistently ranked as the most livable city in the world. Monash is one of Australia's prestigious group of eight research institutions- this is your chance to work in a collegial, research-intensive environment with access to excellent facilities.

To apply for the position, please send an email briefly

stating your research interests and providing a link to your university's description of the research requirements of your degree. Please attach, a Curriculum Vitae, a copy of your academic transcript, your thesis, and the names of two referees.

Enquires and applications should be sent to Dr. Michael McDonald at

mike.mcdonald@monash.edu

for more information see:

http://www.mcdonald-lab.com/ https://-scholar.google.com.au/citations?hl=3Den&user=-3D5JLRdvAAAAAJ&view_op=list_works&sortby=-pubdate Dr. Michael J. McDonald *(He/Him)* Associate Professor Research Director, School of Biological Sciences Monash University [image: MHFAider Accredited Digital Badge] *I'm an LGBTIQA+ Ally* Find out more at monash.edu/lgbtiqa

T: +61 3 9905 1697 E: mike.mcdonald@monash.edu

mike.mcdonald@monash.edu

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NewcastleU ClimateAdaptationAmphibians

Competition funded PhD Position available in Ecology Group, Newcastle University, UK

Title: Extinctions in Paradise? The impacts of climate change on endemic amphibians of the Seychelles Archipelago

Deadline: 11th January 2024

About the Project: The isolated granitic Seychelles are continental in origin, once forming part of the supercontinent Gondwanaland, and home to 13 endemic amphibians 12 ancient and one more recent arrival (the Seychelles treefrog). The Sooglossidae are an endemic family of four frog species, and the limbless caecilian amphibians form a radiation of eight species, both of which have been isolated from their closest relatives for upwards of 65 million years, and are thus globally important.

Island organisms are at particularly high risk from climate change because they are latitudinally, longitudinally, and elevationally restricted, making them unable to escape changing climatic conditions. Many of the Seychelles endemic amphibians have tiny distributions and occur in small, specialist habitats. For example, the Seychelles caecilian Hypogeophis montanus has a distribution of <2km2 on Mahé island, only occurring on the two highest Seychelles mountain peaks. Restriction to a 180m elevational window (undoubtedly further reduced due to expansive exposed rock habitat across peaks) likely positions H. montanus as the vertebrate species most threatened by climate change, placing this species in 'imminent danger of extinction' (Maddock, 2018).

The climate of the granitic Seychelles varies at the inter- and intra-island level, yet climate data to inform the threat posed by climate change to the island's fauna, flora and human population, are lacking. Official climate data are collected on reclaimed land at the international airport which is barely above sea level, and unrepresentative of the thermal and climate gradients present across Seychelles. We have been collecting climate data from tens of data loggers since 2018 in an attempt to fill this important knowledge gap. A crucial aspect of this PhD will be to extend our baseline climate data collection across many more localities, and to identify how climate varies with island and habitat. This will inform measures for climate change mitigation with our in-country collaborators.

The student will also use genetic approaches to identify and test markers that can provide insight into climate change adaptive potential in Seychelles amphibians (e.g., incorporating the CASSANDRA database www.cassandra-genes.org). These data will combine with truth-modelled climate predictions to infer climate-response by assessing the vulnerability of Seychelles amphibians to climate change, inform potential species, community, and ecosystem impacts, and measures for climate change mitigation.

Key Research Gaps and Questions: - What are the current climatic conditions of the granitic Seychelles and how will this change with climate change? - Will geographically restricted, globally important, endemic amphibians be able to adapt to a changing climate?

Prerequisites: Student must be interested in combining fieldwork, lab work and handling of large datasets. Genetic expertise and amphibian fieldwork experience are desirable.

Funding Notes: This studentship project includes funding by the NERC ONE Planet DTP, a partnership between Newcastle and Northumbria Universities. This PhD project is in partnership with the Island Biodiversity and Conservation Centre, University of Seychelles. We provide full fees, an annual living allowance, research

support costs, and a fantastic cohort experience. To find out how to apply please visit our website: View Website

For more information, please contact Simon Maddock (https://research.ncl.ac.uk/one-planet/studentships/).

Simon Maddock <Simon.Maddock@newcastle.ac.uk>

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PolishAcadSci Warsaw AvianEvolution

PhD position Museum and Institute of Zoology, Polish Academy of Sciences

The role of early environment and physiology on phenotypic variation of nestlings in an avian coevolutionary arms race

Phenotypic diversification is one of the most intriguing aspects of the coevolutionary interactions between avian brood parasites and their hosts. However, despite decades of research, little is known on the role of such interactions in promoting nestling's diversification. In New Caledonia the brood-parasitic shining bronze-cuckoo (Chalcites lucidus) and its exclusive host the fan-tailed gerygone (Gerygone flavolateralis) have nestlings occurring in two discrete colour morphs, either pink-grey (bright) or dark-grey (dark) and the host broods can be monomorphic (bright, dark) or mixed. The cuckoo nestlings mimic host nestlings, but host parents recognise the cuckoo nestlings and eject these from the nest. No other cuckoo-host system anywhere else in the world has reached similar complexity in coevolutionary interactions. The Behavioural Ecology Unit of the Museum and Institute of Zoology PAS has studied this system since 2011. We banded and genotyped adults and fledglings across three populations on the main island of Grande Terre and monitored individuals across multiple breeding seasons. Our research has focused on the breeding biology of host and parasite, cognitive mechanisms underlying host's recognition of the parasite nestling and the genetic basis of nestling colour variation (see the list of selected publications). However, we still know little on the role of ecological and physiological mechanisms in determining nestling phenotypic variation.

The main objectives of the PhD research will be to investigate if the host nestling phenotype: 1) depends on the mother's condition and changes in incubation patterns; 2) depends on nest exposure to sunlight, UV irradiation and temperature fluctuations; 3) is associated with physiological differences in immune and stress response.

Fieldwork will be conducted in a well-established site on the main island of Grande Terre in New Caledonia in the period September-January each year. Fieldwork duties involve bird tracking, mist-netting, banding of adults and fledglings, monitoring of cuckoo parasitism and host breeding attempts, experimental work in the field, blood sampling, immune and stress response assays of host nestlings. The PhD candidate will also supervise a small research group of 2-4 research assistants and M.Sc. students. Besides fieldwork, other duties will involve data analysis, preparation of scientific publications and research proposals. The candidate will have ample possibility to develop their own complementary research and, depending on own interests, participate in molecular work (genetics and corticosteroid analysis). The candidate will become an active member of the Behavioural Ecology Unit and will be encouraged to engage with the groups' research projects and develop their own research ideas and proposals.

The candidate will work under the supervision of dr. Alfredo Attisano and prof dr. hab. Jorn Theuerkauf and join the doctoral program of the BioPlanet Doctoral School (https://szkoladoktorska-bioplanet.pl/). The project is financed by an NCN OPUS grant and will provide a monthly scholarship of 5000 PLN for 40 months.

Requirements * M.Sc. in Animal Behavior, Biology, Zoology, Ecology or related field * Relevant ornithological fieldwork experience in particular mist- netting, banding and blood sampling. Knowledge of techniques for immune assays are desirable * good knowledge of methodologies for statistical analysis. Proficiency in R (or Python) will be considered an asset * proficiency in English (spoken and written, level B2 and above), knowledge of French desirable * physical fitness and ability to work in challenging conditions (heat and UV exposure) * ability to work independently and as part of a team * ability to supervise small research teams * category B driving license

Application Please send the application by email to dr. Alfredo Attisano (aattisano@miiz.waw.pl) with the subject "PhD Application OPUS 23". The application should contain: 1) a cover letter (in English) describing relevant research experience, future research plans and motivation for joining our research group (max 1 A4 page) 2) CV (in English) including list of publications and contact details of at least 2 referees, of which one should be the M.Sc. supervisor. Please include the

following statement at the end of the CV: “I give my consent to the processing of personal data provided in my application documents by the Museum and Institute of Zoology PAS for the purpose of the recruitment process, pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with Regulation (EU) 2016/679 of the European Parliament

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StFrancisXavierU InsectEvolutionaryEcology

Funded MSc positions in insect evolutionary ecology

The Insect Evolutionary Ecology lab at St Francis Xavier University has funding for MSc positions on two topics:

The battle of the sexes in a bug. Study how sexual conflict influences behaviour, life history, and the genome in water striders.

Disruption from warming winters. Study how warming winters cause sex-specific disruption to life history in ladybugs.

Students are welcome to get in touch to discuss projects on related topics.

Projects involve:

* Field work in the Maritimes * Lab experiments * Option of genetic and genomic work * A high-quality research experience in a supportive group

To find out more: Please email Dr Jen Perry at jperry@stfx.ca. Informal enquiries welcome! My lab is committed to a research environment that prioritizes equality, diversity, inclusion and accessibility.

Application deadline: Feb. 15, 2024 Lab website: https://www.jenperrylab.com/ Program: www.mystfx.ca/biology/graduate-program Location: Antigonish, Nova Scotia, Canada

Jennifer Perry <jperry@stfx.ca>

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Toulouse ConservationGenomics

Ph.D. Position: Conservation Genomics and Evolution of Endangered Pyrenean Plants Amidst Climate Change Challenges

Application Deadline: Wednesday, February 5, 2024 Contact: [jerome.murienne@cnrs.fr]

How to apply: https://emploi.cnrs.fr/-Offres/Doctorant/UMR5300-JERMUR-001/-Default.aspx?lang=EN General Information

Job Title: Ph.D. in Ecology on Threatened Plants of the Pyrenees (M/F)

Reference: UMR5300-CRBE-001

Number of Positions: 1

Location: Toulouse

Publication Date: December 22, 2023

Type of Contract: Fixed-term doctoral contract

Contract Duration: 36 months

Ph.D. Start Date: March 1, 2024

Workload: Full-time Remuneration:

Monthly gross flat rate of 2135 euros

Thesis Subject Description

The proposed thesis topic is part of the interregional European program FLORAPYR3D (INTERREG France, Spain, Andorra), coordinated by the National Botanical Conservatory of the Pyrenees and Midi-Pyrï¿½nï¿½es. FLORAPYR3D aims to enhance knowledge about the flora and habitats of the Pyrenees and support conservation and management actions by assisting public authorities and managers. The thesis will be supervised by Jï¿½rï¿½me Murienne (Biodiversity and Environment Research Center) and Joris Bertrand (University of Perpignan Via Domitia) and will benefit from a supervisory team composed of Jordi Salmona, Romain Bertrand, Gabrielle Martin, and Nathalie Escaravage. The candidate will conduct population genomics studies on certain threatened plant species to document conservation challenges within the Pyrenees. The candidate will use modeling tools to account for population genomic in species redistribution scenario in face of the expected future global changes.

Work Context

The candidate will be hosted at the Biodiversity and Environment Research Center (CRBE) located in Toulouse on the campus of the University of Toulouse 3 Paul Sabatier. The candidate will be affiliated with the SEVAB doctoral school at the University of Toulouse.

Constraints and Risks

The candidate may potentially conduct field sampling in a mountainous context and must have good physical fitness for missions in challenging terrain. Additionally, the candidate should possess solid knowledge in population genomics and modeling, as well as proficiency in statistical analysis tools and the R language. Knowledge of BASH scripting, experience in bioinformatics, and familiarity with the plant biological model will be advantageous for the application.

Jordi SALMONA - IRD - CRBE

Centre de Recherche sur la Biodiversitï¿½ et l'Environnement - UMR5300 IUCN SSC Primate Specialist Group - Madagascar jordi.salmona@ird.fr / jordi.salmona@univ-tlse3.fr +33 (0)561556758

jordi.salmona@ird.fr

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UAlaska Fairbanks OysterEvolution

Graduate Assistantship: Transcriptomic responses of Pacific Oysters to environmental stressors

The Glass Lab at UAF (www.theglasslab.org) seeking a candidate for a M.S. or PhD assistantship in Fisheries at the University of Alaska Fairbanks, College of Fisheries and Ocean Sciences. The student will generate transcriptomic and phenotypic datasets for Pacific Oysters (Crassostrea gigas) and conduct analyses of oysters' responses to environmental stressors (heat and algal toxins) in laboratory and field settings. The student will work closely with commercial oyster farmers, NOAA's Alaska Fisheries Science Center, the USDA Pacific Shellfish Research Unit, Oregon State University's Hatfield Marine Science Center, Alaska Sea Grant staff, and other project partners. The vision of this project is to inform the mariculture industry on environmental and biological factors that influence oyster growth in Alaska. A candidate with interests in genomics, conservation genetics, and mariculture is desired.

Start Date: May or August 2024

Salary and Benefits: $37,000 per year (2 years) will be paid through a Research Assistantship supported by Alaska Sea Grant. Tuition, fees and health insurance will be covered by the project. There are opportunities to serve as a TA for additional semesters.

Qualifications: Bachelor's degree in biology, evolution, fisheries, genetics, or other relevant discipline. Experience with molecular biology techniques, bioinformatics and coding in R or Python is desirable. A willingness to learn, attention to detail, and a strong work ethic are essential.

Contact: For more information about the project, please email Jessica Glass (jessica.glass@alaska.edu).

To apply, please send the following: 1) 1-page cover letter describing your interest in the position, skills, and goals 2) CV or resume, 3) unofficial transcripts, and 4) contact information for 3 references. UAF values equity, diversity and inclusion and we especially encourage applicants from underrepresented or historically excluded groups to apply.

Applications will be accepted until February 16th.

Jessica R. Glass, PhD Assistant Professor, Fisheries she/her

University of Alaska Fairbanks College of Fisheries and Ocean Sciences Department of Fisheries 2150 Koyukuk Drive Fairbanks, Alaska 99775 jessica.glass@alaska.edu +1 907 474 6524 www.theglasslab.org Jessica Glass <jrglass@alaska.edu>

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UCDublin Ireland FishEvolution

The Evolutionary Developmental Genetics of Bony Fish Tooth Diversity

A Fully funded PhD Studentship is at the UCD School of Biology and Environmental Sciences

Application deadline: 14 February 2024

(https://www.ucd.ie/)

Project Description: Salmon, sticklebacks, cichlids, and other bony fishes exhibit incredible diversity in their trophic apparatus. Understanding the mechanisms driving this diversity should allow us to understand how the trophic apparatus facilitates ecological diversification. This position will leverage bioinformatic analyses of gene

expression and genome level comparisons to unravel how trophic adaptations and novel feeding ecology in fishes have evolved. The PhD student will work with a combination of morphology, molecular biology techniques, and computational tools in fishes in a series of projects that will provide opportunities to work with collaborators around the globe.

Qualifications: Minimum educational background: BSc (honours) or MSc degree at 2.1 grade or above (or equivalent) in Biology or related discipline. Strong computational skills and experience with programming in R.

Desirable: The successful candidate should be enthusiastic, self-motivated and willing to learn new computational methods, and above all have a willingness to write. As part of this PhD, the candidate will be expected to demonstrate/assist in undergraduate practicals for the academic session.

Stipend: The student will receive a tax-free stipend of euro 22,000 per year, full coverage of tuition fees and funds for conference travel. As part of the agreement, the student will be serve as demonstrator (Teaching Assistant) for a set number of hours each year, which will be paid on top of the stipend at the hourly rate (https://www.ucd.ie/hr/pay/-hourlypaidemployees/hourlypaidrates/).

Equality and diversity: UCD is committed to creating an environment where diversity is celebrated and everyone is treated fairly regardless of gender, age, race, disability, ethnic origin, religion, sexual orientation, civil status, family status, or membership of the travelling community (https://www.ucd.ie/equality/). Applications from all suitably qualified candidates will be considered.

About UCD: UCD, located in the cosmopolitan city of Dublin, Ireland, is one of the top universities in Europe - and is also ranked in the top 1% of higher education institutions worldwide. Our students love the UCD campus, a huge, spacious campus with lakes, woodland walks and wildlife close to Dublin's city centre.

UCD is the most international university in Ireland and welcomes hundreds of new international students every year. Specific information and support for international applicants including visa requirements is available here: https://www.ucd.ie/global/study-at-ucd/ Informal enquiries are welcome and should be made to Dr Darrin Hulsey (darrin.hulsey1@ucd.ie).

Lab Website: https://darrinhulsey.com/ To apply please e-mail darrin.hulsey1@ucd.ie a single pdf document with - thesis and/or scientific publication, - a detailed curriculum vitae describing any previous research experience, - a cover letter detailing your research interests, goals, as well as reasons for applying for the position, and the contact details (e-mail and phone number) of at least two academic referees.

Please reference "PhD Application - fish adaptation genomics" in the subject line of the email.

Evaluation of applicants will commence on February 14, 2024, and will continue until the position is filled

Darrin Hulsey <darrin.hulsey1@ucd.ie>

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UGlasgow EvolutionGeneRegulation

Graduate Student Position: De novo emergence and evolution of novel gene regulatory interactions in bacteria, University of Glasgow, Scotland (UK only)

Primary supervisor: Dr. Arianne Babina, School of Infection and Immunity, College of Medical, Veterinary, and Life Sciences, University of Glasgow, Scotland

Project description: The need to understand how bacterial gene regulatory mechanisms emerge and evolve to help bacteria quickly adapt to environmental changes has never been more crucial. Antimicrobial resistance is a rising global threat that is frequently caused by the evolutionary adaptation of bacterial gene regulatory networks in response to our use of antibiotics in the clinic, agriculture, and food industries. Similarly, recent research has shown that changes to gene regulatory networks play an important role in the adaptation of emerging bacterial pathogens to new hosts. In addition, bacterial adaptation to current global environmental changes will have lasting effects on soil and ocean ecosystems, which will greatly impact our agricultural practices, conservation efforts, and alternative energy strategies in the near future. While a lot of progress has been made towards understanding the mechanisms that bacteria use to control gene expression, we still know very little about how environmental changes impact bacterial gene regulation, especially the formation and optimization of new gene control mechanisms de novo, from previously nonfunctional DNA sequences.

This project centers around isolating and functionally characterizing novel small protein and RNA regulators from randomly-generated DNA libraries. We will also investigate and compare how different environmental factors might affect the emergence and function of new gene regulatory interactions in bacterial genomes, as

well as their evolution over time to help the bacteria adapt to new conditions. This will be done using genetic screens, experimental evolution, molecular biology and biochemistry techniques, and multi-omics approaches. The project outcomes will help us predict and manage bacterial responses to environmental changes and aid in the design of biotechnological solutions to improve human health, agriculture, and industry.

Eligibility and qualifications: UK Home students only; this three-year PhD studentship is fully funded by the School of Infection and Immunity and includes UK Home fees (4,849 GBP per annum) and stipend (19,162 GBP per annum) (current rates as of September 2024).

Applicants must qualify as a UK Home student and have obtained or be about to obtain a first or upper second-class UK honours degree, or the international equivalent in an appropriate area of science, such as molecular biology, microbiology, or a related field.A Master's level qualification and/or post-graduate experience in a relevant field is advantageous, but not mandatory. The ideal candidate will demonstrate an ability to undertake the practical and theoretical aspects of the project. A basic understanding of bacterial gene regulation and standard microbiology and molecular biology techniques is a plus, but not required.

Application instructions: Please apply via the University of Glasgow application portal: http://tiny.cc/uogapply. As part of the application, please include a CV detailing your relevant education and experience and a cover letter describing your research experience, interests, and motivations for applying to this position. Deadline 31 January 2024.

For more information, see: https://www.findaphd.com/-phds/project/fully-funded-project-de-novo-emergence-and-evolution-of-novel-gene-regulatory-interactions-in-bacteria/?p167493 Dr.Arianne M. Babina, Ph.D. Postdoctoral Researcher Dan I. Andersson Group Department of Medical Biochemistry and Microbiology Uppsala University

Arianne Babina <arianne.babina@imbim.uu.se>

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UlmU FlyTransposonEvolution

We are currently looking for a PhD student to join us on the FlyInnovation project - deadline for applications 11th of February 2024.

This 3 year PhD studentship is part of the DFG grant FlyInnovation awarded to Prof. Lena Wilfert (University of Ulm) and Dr Pete Czuppon (University of Mï¿½nster). This evolutionary genetics project studies the evolution of genomic cooperation and conflict between transposable elements (TEs) and their host genomes via experimental and theoretical approaches. Specifically, FlyInnovation aims to understand if the TEs that inhabit the ends of Drosophila chromosomes are an evolutionary innovation or merely selfish genetic elements by combining experiments, OMICS approaches and theory.

The advertised PhD will work on the experimental aspects of the project, collaborating with the theoretical team at the University of Mï¿½nster who are applying ecological models to this exciting evolutionary question. The advertised project also offers the opportunity to study the evolutionary trade-off between ageing and fecundity and how it is resolved in multiple species. This project is part of a multi-team program across Germany focusing on genetic innovation in insects (http://www.g-evol.com), offering excellent opportunities for training, collaboration and networking with leading institutes in evolutionary biology.

For more information, contact information and to apply visit https://www.uni-ulm.de/nawi/-evolutionary-ecology-and-conservation-genomics/-prof-dr-lena-wilfert/research/current-projects/project-flyinnovation/ Prof. Dr. Lena Wilfert University of Ulm Institute of Evolutionary Ecology andConservation Genomics Albert-Einstein Allee 11 D-89069 Ulm Germany Tel.: 0049-731-5030615 Fax: 0049-731-5022683

email: lena.wilfert@uni-ulm.de Website: https:/-/www.uni-ulm.de/nawi/evolutionary-ecology-and-conservation-genomics/prof-dr-lena-wilfert Lena Wilfert <lena.wilfert@uni-ulm.de>

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UNewBrunswick SaintJohn ComparativePhysiology

PhD Position in Molecular Physiology

Research in the Zimmer lab focuses on the physiological mechanisms that aquatic organisms, primarily fishes, employ to cope with environmental change and environmental extremes. We focus on the physiological responses to changes in salinity, freshwater acidification, pollution, and other environmentally relevant stressors. In particular, my lab seeks to understand the underlying mechanisms governing these physiological responses using a variety of experimental approaches.

We are currently seeking a PhD student for a fully funded position (offering above the NSERC PGS D "standard") to develop and employ CRISPR/Cas9 gene editing approaches in mummichog (Fundulus heteroclitus) to probe the plasticity of the ionoregulatory system of this species and to elucidate the role of putatively important ion-transporting proteins in regulating osmotic homeostasis in response to changes in salinity and/or pH. The student will also have the opportunity to develop their own research questions that apply gene editing approaches to understand physiological mechanisms in mummichog or other aquatic organisms.

The ideal candidate will have experience in fish husbandry, in the use of online genomic information resources (e.g., NCBI), and in employing basic molecular techniques (e.g., PCR). Prior work in fish reproduction, microinjections, microscopy, and field fish collections will be considered assets.

This position is currently limited to Canadian citizens or permanent residents. Start date for the position is Mayor September 2024or January 2025.

Applications for this position will be accepted beginning immediately and the position will be filled by the first suitable candidate; there is no application deadline. If you are interested in joining a developing lab in a research-intensive department on a small campus, this is a great opportunity! To learn more about the Zimmer Lab, please visit zimmerlab.ca.

If you are interested in this opportunity, please send an email to Alex Zimmer (alex.zimmer@unb.ca) that includes your academic CV, a list of your technical skills, and a description of your research interests.

Alex Zimmer, PhD Assistant Professor Department of Biological Sciences - CRI 202 University of New Brunswick Saint John, NB, Canada, E2L 4L5

email: alex.zimmer@unb.ca

Alex Zimmer <alex.zimmer@unb.ca>

UOslo AdaptationGenomicsSparrows

Hi all,

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

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

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

1) what is the extent of parallel and non-parallel adaptation to temperature in both the native and invasive ranges? 2) how have temperature changes over the last century shaped thermal adaptation? 3) what are

the evolutionary trade-offs and fitness consequences of adapting to extreme temperatures?

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

Very happy to hear from interested candidates!

Mark

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

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

UOtago LizardFossilVariation

Disentangling competing sources of morphological variation in the fossil record of geckos and skinks from New Zealand and New Caledonia

Overview

The Department of Zoology has a strong international reputation in whole-organism biology, with research strengths in areas including conservation biology, genetics, evolutionary parasitology, environmental physiology, wildlife management, neurobiology and statistical modelling, as well as in molecular, functional, population, community, freshwater and behavioural ecology.

We have well-established links to the Departments of Botany and Marine Science, to the cross-disciplinary Ecology, Genetics and Neuroscience Programmes, and to other centres at the University of Otago, providing a collaborative environment and resources for innovative interdisciplinary research.

Our staff have international reputations in their areas of expertise and make major contributions to answering fundamental questions in basic and applied research.

About the position(s)

As a PhD or MSc student, your thesis research will be funded by a Marsden Fund project that aims to disentangle competing sources of morphological variation in the fossil record. Preliminary evidence suggests that variation within species is often mistaken for variation between species, perhaps leading to taxonomic over-splitting and inflated estimates of biodiversity and speciation/extinction.

You will work with the postdoctoral fellow and research assistant to test this overarching hypothesis by applying a novel combination of geometric morphometrics and palaeo-genetics to contemporary and fossil specimens of geckos and skinks from New Zealand and New Caledonia. You will lead a subset of the project, based on your area of expertise (e.g. palaeo-genetics, geometric morphometrics) and interests (e.g. skinks, geckos, New Zealand, New Caledonia). The outcomes of this research will have important implications for taxonomy, palaeontology, and conservation.We welcome potential students who want to focus on geometric morphometrics, palaeo-genetics, or a combination of both.

You will be located in the Department of Zoology at the University of Otago, which has a dedicated ancient DNA laboratory, a modern genetics laboratory, and access to high-throughput DNA sequencing and 3D micro-CT scanners on campus and across Australasia. The department has a large, vibrant, and diverse research environment, providing opportunities to interact with students and academics across ecology, evolutionary genetics, neurobiology, parasitology, physiology, and zoology.

The PhD and MSc student will be supervised by Associate Professor Nic Rawlence and Dr Jo Monks (Otago University), Dr Kieren Mitchell (Manaaki Whenua Landcare Research), and Dr Emma Sherratt (University of Adelaide). As part of the Marsden Fund project, you will be part of an internationally collaborative team including a postdoctoral fellow and research assistant, and researchers and museums from New Zealand, Australia, New Caledonia, the UK, and the USA.

Skills required

The PhD or MSc student must have an interest in evolution, palaeontology, geometric morphometrics, and/or genetics. The candidate will ideally have a background in genetics or biological sciences. The successful candidate will need strong organisational skills to lead experiments, experience with lab work, and an ability to work both independently and as part of a team. Candidates should have a BSc or equivalent for the Masters project, or a BSc(Hons), MSc, or equivalent for the PhD project.

Some knowledge and experience in some or all of the following areas would be advantageous:

Molecular biology (specifically modern and ancient DNA

extraction, single and double stranded DNA library preparation, quantitative PCR, hybridisation capture enrichment). Experimental design for Illumina high-throughput DNA sequencing platforms. Bioinformatic analysis of high-throughput sequencing data (especially genome-scale data and/or ancient DNA data). Phylogenetic analysis (especially BEAST and maximum likelihood methods). Geometric morphometrics (3D micro-CT scanning, 2D and 3D photogrammetry, morphometric analysis in R).

Equal opportunities We are committed to an inclusive and supportive research environment for people of all genders, ethnicities, and abilities.

Scholarships available at the University of Otago The University of Otago offers PhD scholarships (fees and stipend, $32,544 pa) for three years, and MSc scholarships in the second year (fees and stipend, $18,204 pa). Research costs are covered by a Marsden Fund grant.

How to apply To apply, email a cover letter (outlining your interests and background), your CV, academic transcript, and the names of three referees to:

Associate Professor Nic Rawlence nic.rawlence@otago.ac.nz

Enquiries and questions before applying are welcome.

Applications will close 29th Feb, with the student ideally starting from mid-2024.

Associate Professor Nic Rawlence

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

UOtago MolluscAndSalmonGenomics

Two PhD positions available through the University of Otago, New Zealand, at the intersection of genomics, aquaculture and evolutionary biology, as applied to understanding climate resilience.

PROJECT 1: Fast-tracking climate resilient Chinook salmon through genomics Fully funded PhD position, University of Otago/AgResearch, New Zealand

We are recruiting a PhD student who will use the latest tools in genomics and genetics to understand climate resilience in Chinook salmon (Oncorhynchus tshawytscha), and assist in the establishment of adaptive breeding strategies that will help future-proof the finfish aquaculture sector.

This work is part of a New Zealand government-funded MBIE Endeavour programme (Fast-tracking Finfish Climate Change Adaptation), and includes exciting opportunities to collaborate with world-leading scientists at research institutions across New Zealand, interface with industry, and gain sought-after skills in animal genomics and breeding.

The project will adjust to take into account the latest developments in genomics, and can be aligned to student interest, but broadly could involve: - Interfacing with breeding design and fish aquaculture operations - Producing world-class genomic and transcriptomic resources using tools such as long read gDNA and direct RNA sequencing - Generating genetic markers and molecular phenotypes from a range of individual salmon exhibiting different resilence to changing environmental conditions - Using this information to understand phenotypic differences, and to guide breeding designs for the derivation of more resilient lines

This project would suit a student with some existing research experience in fields such as genomic analysis, bioinformatics, molecular or quantitative genetics.

The doctoral student will be enrolled at the University of Otago, but will work in collaboration with AgResearch (Invermay) and closely with the Cawthron Institute (Nelson). This position comes with a stipend ($30,696 NZ per annum) plus a tuition fee waiver, and will be well-supported by the broader work programme, including dedicated networking and training opportunities.

For more information please contact Nathan Kenny (nathan.kenny@otago.ac.nz) or Shannon Clarke (shannon.clarke@agresearch.co.nz). To apply, please send a CV, a cover letter stating your skillset, fit, and reason for interest in the position, and two academic referees to either of the addresses above. International applicants with a strong academic and research record are encouraged to apply.

PROJECT 2: Kuku/Green-lipped Mussel Resilience to Climate Change Fully funded PhD position, University of Otago, New Zealand

As part of a Rutherford Discovery Fellowship funded project, we are looking for a PhD student with interests in animal development, climatic resilience, molecular genetics and/or genomics to work on an exciting project delving into the genetic and molecular origins of climate

resilient phenotypes in the kuku (also known as the green-lipped mussel or kÃ¾tai, Perna canaliculus).

In New Zealand, bivalves such as the kuku are of key economic interest. The New Zealand aquaculture community has an innovative reputation, and has been an early adopter of cutting-edge methods for improving husbandry, including selective breeding programmes. These have identified pedigrees with resilience to thermal stress and ocean acidification. We will use a range of cutting-edge approaches to unpick the molecular origins of these traits.

Depending on student interest, this project could either focus on population and quantitative genetic approaches examining the loci underlying resilient traits, or embryology-centred questions confirming the genetic and phenotypic basis of these differences. The project will include opportunities to work closely with industry bodies and Màori stakeholders, as part of a developing and vibrant research programme.

For more information, contact Nathan Kenny (nathan.kenny@otago.ac.nz). To apply, please send a CV, a cover letter stating your skillset, background, and reason for interest in the position, and details of two academic referees to Nathan at the address above. International applicants with a strong academic and research record are encouraged to apply.

Nathan Kenny <nathan.kenny@otago.ac.nz>

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USouthernMississippi MarineEDNA

Graduate position advertisement below and attached

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

Required Qualifications: BSc in Biology or a related field Highly self-motivated Capacity to work independently Strong written and oral communication skills Interest in eDNA science Detail-oriented

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

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

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

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

Associate Professor

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

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

Nicole Phillips <N.Phillips@usm.edu>

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USussex HumanGenomeMutations

A PhD positions is available to work with Professor Adam Eyre-Walker and Dr. Frances Pearl at the University of Sussex and Dr Marta Barre Belmont at the University of Kent on

The pattern of mutation in the human genome.

This is available through the SoCoBio DTP studentship programme. The closing date is Jan 8th 2024. Further details can be found at https://-

southcoastbiosciencesdtp.ac.uk/ The mutation rate is known to vary across the human genome at a variety of different scales, from variation between adjacent sites, to variation between whole chromosomes. This variation is observed both in the germline, generating heritable genetic differences, including those that cause a variety of human diseases, and in the soma, which can cause cancer. Despite its importance this variation remains poorly characterised and understood. This project will address a number of different questions. In the first part of the project we will quantify the extent to which the mutation rate varies at different scales in both the germline and soma. To what extent are the patterns of mutation correlated between different tissues and life stages? In the second part of the project we will attempt to understand why the mutation rate varies and develop a predictive model using artificial intelligence techniques. In the third part of the project we will investigate one particular mutational mechanism in which one mutational event leads to multiple mutational events at the same nucleotide site. The project will give us insights into one of the most fundamental processes in genetics and help us understand how genetic variation is generated and how cancer mutations are produced.

The project will involve the analysis of DNA sequence data and will give the student training in bioinformatics, big data and statistical analysis. Students with some experience of bioinformatics are particularly encouraged to apply. The project will be supervised by Prof. Adam Eyre-Walker and Dr. Frances Pearl at the University of Sussex, and Dr. Marta Farrï¿½-Belmonte at the University of Kent, leaders in the field of molecular evolution and computational biology.

Informal enquiries can be made to Adam Eyre-Walker (a.c.eyre-walker@sussex.ac.uk)

Adam Eyre-Walker <a.c.eyre-walker@sussex.ac.uk>

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

USussex LittorinaSpeciationGenomics

A Fully funded PhD Studentship is at the University of Sussex, starting in September (UK students only). Application deadline: 28 February 2024

Title: Dissecting the genomic basis of reproductive mode evolution and speciation in Littorina snails

About the project: The process of speciation involves the build-up of isolating barriers that restrict gene exchange between populations. Although barriers to gene flow are critical to divergence and species coexistence, we rarely understand the traits and loci that underpin strong isolation.

The aim of this project is to understand how differences in female reproductive mode contribute to strong isolation between closely-related species of intertidal snail. In the UK and Europe, a live-bearing species of periwinkle (Littorina saxatilis) coexists with egg-laying species (Littorina compressa and Littorina arcana). A lack of hybrids between sympatric egg-layers and live-bearers indicates that the barrier to gene flow between them is very strong.

Recent work has revealed many candidate regions of genome that underpin the difference in reproductive mode. In this project, you will use a new reference genomes, new and existing genomic data, and cutting-edge methods to determine if mode-associated loci also act as barriers to gene flow. Specific objectives include: (1) to more precisely determine the number and genomic distribution of loci associated with the difference in reproductive mode; (2) to determine if reproductive mode acts a barrier by (a) identifying barrier loci and (b) testing for overlap with reproductive mode-associated loci; and (3) to reconstruct the demographic history of divergence to reveal help us understand when and how barriers to gene flow evolved. The successful candidate will be encouraged to take the project in directions that excite them most.

The team: You will work in the Speciation Research Group led by Dr Sean Stankowski in the Ecology and Evolution department at the University of Sussex, Brighton. There will be ample opportunity to collaborate and share findings with other scientists from the Littorina research community (https://-littorina.sites.sheffield.ac.uk/home).

Prerequisites: Ideal candidates will have some bioinformatics skills, experience working with genomic datasets, will have used a HPC, and will have basic knowledge and be excited about the subject area. Eligible applicants will hold a 2:1 BSc in a relevant subject. Candidates for whom English is not their first language will require an IELTS score of 6.5 overall, with not less than 6.0 in any section.

How to apply: Please submit a formal application through the online admissions portal (https://-www.sussex.ac.uk/study/phd/apply) attaching a CV, degree transcripts and certificates, statement of interest and two academic references. On the application system select Programme of Study - PhD Biology. Please

ensure you state the project title under funding and include the proposed supervisor's name where required. Applications are particularly welcomed from candidates with protected characteristics - e.g., from Black and other ethnic minorities - who are under-represented in postgraduate research at our institution.

Enquiries: For enquiries about the project, please contact Sean Stankowski: s.stankowski@sussex.ac.uk For enquiries about the application process, please email Emma Chorley: lifesci- rec@sussex.ac.uk

Related publications: Stankowski, S., Zagrodzka, Z. B., Garlovsky, M. D., Pal, A., Shipilina, D., Castillo, D. G., ... & Butlin, R. K. (2023). The genetic basis of a recent transition to live-bearing in marine snails. Science, 2024. https://www.science.org/doi/10.1126/science.adi2982 Stankowski, S., Westram, A. M., Zagrodzka, Z. B., Eyres, I., Broquet, T., Johannesson, K., & Butlin, R. K. (2020). The evolution of strong reproductive isolation between sympatric intertidal snails. Philosophical Transactions of the Royal Society B. https://-royalsocietypublishing.org/doi/10.1098/rstb.2019.0545 Sean Stankowski <S.Stankowski@sussex.ac.uk>

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USydney EvolutionLifeHistories

Summary

The University of Sydney is currently offering PhD projects with funding tied to Australian Research Council Grants.

One such project, being offered in Alistair Senior's research group, is looking at the co-evolution of appetite and life-history traits using Drosophila melanogaster as a model organism. This scholarship is available to international applicants.

Brief Project Description

Have you ever wondered how your appetite evolved?

Have you ever wondered why different animals, or even people, live longer than one another?

If so, this research is for you.

The project seeks to understand how the nutritional environment interacts with other non-nutritional factors to drive the co-evolution of appetite and life-history traits such as lifespan. The student will primarily be responsible to undertaking an experimental evolution study using lab populations of Drosophila melanogaster as a model. Supplementarily, comparative and meta-analytic approaches may be used. The student will gain skills in experimental biology, statistics and quantitative genetics, alongside cutting edge 'omics' platforms (e.g., proteomics).

For more information about the project email alistair.senior@sydney.edu.au

For more information of the scholarship, which is available internationally see here:

https://www.sydney.edu.au/scholarships/d/arc-postgraduate-research-scholarship.html?campaign=-ARC_sch&source=linkedin&area=science&a=p-stud&type=o Dr Alistair M Senior (he/him)

ARC Future Fellow Charles Perkins Centre (CPC) and Sydney PrecisionData Science Centre (SPDSC)

School of Life and Environmental Sciences (SoLES) and School of Mathematics and Statistics (SoMS)

Faculty of Science

THE UNIVERSITY OF SYDNEY

L4E, D17 - Charles Perkins Centre | The University of Sydney | NSW | 2006

T+61 (0) 2 8627 0703 | F+61 (0) 2 8627 1605

Ealistair.senior@sydney.edu.au |W seniorlab.science

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We recognise and pay respect to the Elders and communities - past, present, and emerging - of the lands that the University of Sydney's campuses stand on. For thousands of years they have shared and exchanged knowledges across innumerable generations for the benefit of all.

Please think of our environment and only print this email if necessary.

Alistair Senior <alistair.senior@sydney.edu.au>

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UToulouse UAntananarivo MalagasyLanscapeGenetics

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

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

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

General Information

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

Location: Toulouse, Montpellier, France - Antananarivo, Madagascar

Publication Date: January 10, 2024

Grant Duration: 36 months

Ph.D. Start Date: September 1, 2024

Workload: Full-time

Remuneration:

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

Thesis Subject Description

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

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

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

The project will be co-supervised by a multidisciplinary group of researchers facilitating the acquisition of specialized knowledge in landscape genetics and genomics (Jordi Salmona, IRD-CRBE and Lounès Chikhi, CNRS-CRBE and Instituto Gulbenkian de Ciência), in spatial analysis and remote sensing (Solofo Rakotondraompiana, IOGA-Madagascar). In addition, the project integration to the IRD ILJ-Landscapes and the co-supervision by Stéphanie M. Carrière (IRD-UMR-SENS), will establish a strong connection with the activities of other sites studied by the ILJ, encompassing ecological and ethnoecological aspects and concerns related to landscape sustainability.

Work Context

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

encouraged from Malagasy nationals, students of Malagasy Universities, and citizens from the South-Western Indian Ocean region, but all candidates from [https://www.sshb.org/lmic/ | low- and lower-middle-income countries] will be considered.

Constraints and Risks

The candidate should possess solid knowledge in population genetics, genomics and modeling, as well as proficiency in statistical analysis

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UWisconsin FishReproductiveDemographics

The Molecular Conservation Genetics Lab at the University of Wisconsin-Stevens Point seeks an MS student to lead research that will develop and use genetic tools to characterize reproductive demographic patterns of white sucker and longnose sucker in the Boardman/Ottaway River in northwestern lower Michigan. The position will involve design of genotyping-in-thousands (GT-seq) panels for each species that will be used to generate estimates of the number of successful spawners and effective number of breeders. The position is stationed at the University of Wisconsin-Stevens Point in Stevens Point, WI and supports the FishPass (http://www.glfc.org/fishpass.php) restoration project. The student will work closely with fishery managers and biologists from state and tribal agencies. Limited opportunities for fieldwork will also be available.

BS in Fisheries, Biology, Ecology, or related field. Experience in generating and/or analyzing genetic data is preferred, but not strictly required.

To apply, please email cover letter, CV/resume, unofficial transcripts, and contact information for three references to Jared Homola (jhomola@uwsp.edu). Additional questions regarding the project should be sent via email (jhomola@uwsp.edu).

Jared Homola Assistant Unit Leader USGS, Wisconsin Cooperative Fishery Research Unit Director, Molecular Conservation Genetics Lab University of Wisconsin-Stevens Point 800 Reserve St. Stevens Point, WI 54481

Cell: 517-214-7039

"Homola, Jared" <jhomola@uwsp.edu>

WashingtonStateU PollinatorBeeEvolution

Graduate Opportunity (MS) in Entomology, summer 2024 (pollinator / bee biology) Department of Entomology, Washington State University

For full job advertisement see: https://www.murraylabwsu.com/blog–updates Position description We are looking for applicants for a recently funded MS student position at Washington State University (WSU), Department of Entomology. The student will lead a research project on the pollinator fauna of a federally endangered, endemic flowering plant, Spalding's Catchfly (Silene spaldingii). The successful candidate will be carrying out field work in the Pacific Northwest and use environmental DNA methods to: (1) identify pollinators of Spalding's Catchfly, (2) identify the presence of potential nonnative plant species that may compete with Spalding's catchfly, (3) and examine the pollinator dynamics in an understudied Pacific Northwest ecosystem.

Spalding's catchfly (Silene spaldingii) is a federally listed plant endemic to the Pacific Northwest. This flowering plant depends on native grassland habitat which is declining throughout the. Nonnative invasive plants are considered one of the greatest threats to Spalding's catchfly populations as they can compete for resources, alter ecosystem dynamics and may even alter pollinator behavior. There is reason to believe that the presence of specific nonnative species in Spalding's catchfly habitat may negatively impact reproduction and impede species recovery. Understanding this dynamic is imperative because successful pollination is vital to Spalding's catchfly recovery.

We seek an incoming graduate student with an interest in bee and/or pollinator biology, identification, and field work. The successful candidate will collaborate on a research project between (WSU) and the United States Fish and Wildlife Service (USFWS), with field sites in Northeastern Washington. The student will learn and use novel eDNA metabarcoding techniques, as well as observation and collecting, to identify the pollinator

fauna of Spalding's catchfly, develop plant-pollinator visitation networks detailing plant usage, and contribute to the conservation of a threatened plant species.

Qualifications BS in entomology, biology, or a related field. Preference given to candidates who have skills in bee and/or plant identification, and/or molecular lab work.

Professional expectations: The PhD student will work at Washington State University, Pullman, in the lab of Silas Bossert and Elizabeth Murray. There will be several opportunities for travel during the appointment, including at least one scientific meeting. PIs will encourage professional development and creative and independent approaches to problem solving.

About the lab Our lab is broadly interested in bee and pollinator biology and evolution. Our expertise includes phylogenomics, faunistics, taxonomy, museum curation, and comparative analyses. The lab is in the exciting stage of being recently established and building personnel and resources, and we welcome candidates who will contribute to a diverse laboratory environment (https://murraylabwsu.com).

About the location Washington State University is a land-grant institution located in Pullman, Washington. The Department of Entomology (https://entomology.wsu.edu) hosts facilities such as the MT James Entomological Collection (https://museum.entomology.wsu.edu), the Honey Bee and Pollinator Research, Extension, and Education Facility, and state of the art laboratory equipment. Faculty in Entomology are located on campuses and research & extension centers across the state.

To apply Contact Silas Bossert (silas.bossert@wsu.edu) prior to applying; please include your CV along with a description of your background and your fit for the position. Preferred start time for this position would be between May 15- June 15, 2024. Candidates will be reviewed starting February 5th, 2024.

silas.bossert@wsu.edu

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Jobs

Alberta GrizzlyBearConservation

fRI Research (Alberta, Canada) Grizzly Bear Biologist

Job Opportunity: Biologist with the Grizzly Bear Monitoring Project Link: https://friresearch.ca/news/-job-opportunity-senior-biologist-with-the-grizzly-bear-monitoring-project/ Classification: Biologist Salary: $62,046.84 - $84,290.04, 37.5 hrs/week Duration: 1-year term (possible extension of the term based on performance and funding) Start date: March 2024 Location: Hinton, Alberta Job Description

The successful candidate will be part of a team using non-invasive sampling for genetic and endocrine profiling of grizzly bears to monitor survival, demographics, reproduction, and health of selected bear populations in Alberta.

This position will involve: - Assist with recruiting and training of seasonal staff. - Assist with planning and coordination of fieldwork activities. - Manage and supervise field crews; ensure health and safety requirements are met. - Conduct fieldwork to setup and monitor hair snag/camera sites to obtain grizzly bear hair samples and images. - Conduct habitat monitoring work to assess availability of different bear foods across the landscape. - Engagement with shareholders and project partners. - Engagement with indigenous partners and communities. - Data entry and management. - Providing support with project operations as required. - Position based in Hinton, Alberta, with periods spent living in field camps during the field season as required. - Flexibility to work shifts during the field season(typically 9 days on, 5 days off). - Dependent on experience: Report writing and communications with project partners and stakeholders. Assisting with data analysis and preparation of scientific publications. Potential to develop/pursue own research ideas that fall within the project scope.

The exact breakdown of work and involvement in different elements of the project will depend on the successful candidate's experience, skill set, and interests.

Essential Qualifications and Experience - A minimum of a BSc degree in a related discipline with a minimum of 6 years' field experience in ecological studies or wildlife management or Masters degree in a related discipline with 3 years' field experience in ecological studies. - Experience managing and carrying out field season preparation and logistics (planning field schedules, organizing access to sites, ensuring fieldwork objectives are met, etc.). - Supervisory experience with field crews. - Experience and proficiency driving 4-wheel drive vehicles. - Fieldwork and data collection experience. - Experience carrying out field work in challenging and adverse conditions. - Comfortable working with spatial data, preparing field and GPS maps, using ArcGIS field maps or similar spatial software. - Experience with data entry, managing datasets and databases. - Ability to meet strict production deadlines. - Ability to adapt to changing circumstances and willing to work flexible schedule when required. - Familiarity with or experience in conducting/collaborating on different phases of scientific studies (study design, data collection and analysis, writing, and publication). - Strong organizational skills. - Excellent attention to detail, ability to follow complex protocols and collect data accurately. - Proven problem-solving skills and ability for independent decision making. - Proven ability to work well as part of small and large teams. - Valid First Aid and CPR by start date. - Eligible to work in Canada. - Employment is conditional on clean valid Class 5 driving licence, with minimum 3-years driving record.

Desirable Qualifications and Experience This position may suit a variety of candidates with different levels of experience or skill sets. Therefore, the list of desirable requirements below covers a wide range of strengths that different candidates may bring to the role - candidates are not expected to meet all requirements. - Experience engaging and working with indigenous communities. - Capable and comfortable operating ATVs and trailers. - Familiarity or understanding of vehicle mechanics and maintenance. - Experience in deployment and use of trail cameras. - Experience with spatial and/or statistical software (ArcGIS, R, etc.) - Field experience in the boreal forest or in areas with active forestry, oil and gas, or mining activity. - Strong oral and written communication skills, and ability to explain complex scientific data. - Recent grant writing experience. - Proficiency in designing field data collection protocols and entry. - Scientific writing and communication experience, including reports, peer reviewed publications, or conference presentations. - Familiarity with scientific literature on grizzly bear research, management, and conservation.

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CIBIO Portugal 1yr TropicalBiodiversity

Assistant Researcher Position | Biological Sciences - CIBIO/BIOPOLIS Portugal

Reference: BIOPOLIS 2024-02

Main research field: Biological Sciences

Research Centre in Biodiversity and Genetic Resources - is seeking to recruit one assistant researcher for 13 months to contribute to the project "TROPIBIO - Expanding potential in Tropical Biodiversity and ecosystem research towards sustainable life on land" (Reference NÂº 854248), funded by the European Commission under the call H2020-WIDESPREAD-2018-04, and with an overall budget of 2.5M euro (Project duration: October 2019 - March 2025). This ground-breaking project offers unique opportunities to make a major contribution to tropical conservation research and practice, taking advantage of the strong historical and cultural links between Portugal and Africa and the world class research infrastructure of CIBIO. TROPIBIO is centrally placed in the new Gulf of Guinea Research Program (GGRP), which involves much research and conservation work in the region in the coming years. Successful candidates will work closely with the recently appointed ERA Chair in Tropical Biodiversity and Ecosystems Research (Dr. Luke L. Powell). The research should involve fieldwork in Lusophone African countries or elsewhere in sub-Saharan Africa (e.g., Equatorial Guinea, Cameroon, Gabon), depending on the experience and research interests of the candidate.

We are particularly interested in candidates with a track record in working in the tropics (especially Africa) that have strong analytical and writing skills and a passion for conservation research. Dr. Powell is the founding director ofBiodiversity Initiative(BI), and has a background in tropical rainforest conservation ecology particularly ornithology as such, he ideally seeks recruit a postdoc to aligned with these interests. TROPIBIO has ongoing work in Lusophone Africa and Equatorial Guinea; that being said, we will ultimately select the applicant that is best qualified to produce high impact research and conservation work, regardless of the topic or study site of the research. Research may include (but is not limited to) ant-following birds and/or Dorylus driver ants, agent-based modelling of the Dorylus/bird system, human-wildlife interactions, community ecology across gradients, analysis of diet metabarcoding data across gradients, sustainable use of natural resources, or flagship/iconic species conservation or ecosystem services. Many more project ideas are included in the GGRP link shared above. Please note that in the GGRP link, those projects are mostly described as PhDs research projects; however, most, if tightened in scope, would make excellent as postdoc projects as well, so feel free to expand on those ideas in your letter. Also of note is that research fellowships are available through the Portuguese Government and the European Commission Dr. Powell and CIBIO will support a successful candidates' application to these opportunities as a mechanism to extend the candidate's employment beyond March 2025.

When not in the field, the successful applicant will be based at the facilities of CIBIO, a dynamic research centre located near Porto, in Northern Portugal, which conducts world-class research in the fields of biodiversity and evolution. It is an inclusive, equal opportunity employer offering attractive conditions and benefits. The Centre offers great opportunities for multidisciplinary research and hosts more than 30 research groups, which include over 160 PhD level researchers, and over 100 MSc and PhD students, from across the world. The Centre has state of the art ecology and molecular laboratories and conducts research projects at a global scale. The working language of the institute is English, and it offers a vibrant, multicultural and enthusiastic working atmosphere. In addition, the Northern region of Portugal provides rich cultural and outdoor activities and Porto is a UNESCO world-heritage city and the capital of Port wine.

Benefits of the position include:

- Significant opportunities for travelling, training, conference attendance and networking;

- Competitive salary commensurate with qualifications and experience;

- High quality of life and low cost of living in Portugal.

- Potential for employment beyond March 2025, contingent on funding

For more information, the application period and process visit https://cibio.up.pt/en/jobs/ Fredrik Oxelfelt <fredrik.oxelfelt@biopolis.pt>

GeorgiaInstTech EvolutionaryBiology

BIOLOGICAL SCIENCES TEACHING FACULTY POSITION (OPEN RANK) The School of Biological Sciences in the College of Sciences at the Georgia Institute of Technology (Georgia Tech) invites applications for a full-time, non-tenure-track Academic Professional faculty position, which is a Teaching Faculty and Academic Advisor position, beginning July 2024. The successful candidate will join a vibrant group of faculty with interests in a broad range of biological sciences, innovative pedagogy, and biology education research.

Candidates must have a Ph.D. in a biological science. Ideal applicants should have experience teaching undergraduate biology courses and an interest in evidenced-based and innovative undergraduate instruction. This position requires expertise in some combination of genetics, molecular and cellular biology, and topics of interest to prehealth students. The successful candidate will be expected to teach 5 biology courses per year, contribute to curriculum development, and serve as an academic advisor for undergraduate biology majors. In addition, the candidate will teach upper-level biology electives and TA development courses, depending on expertise and curricular needs. Salary and rank will be commensurate with experience and qualifications. This position is a renewable, 12-month, non-tenure-track appointment in the Academic Professional career track, which has a well-defined promotion path. Candidates should submit an application that contains: a letter of application, a statement of teaching philosophy, a summary of teaching experiences, a sample course syllabus, a curriculum vitae, and names and contact information of three professional references. Application materials should be submitted as PDF files via CAREERS (see link below). Review of applications will begin January 31, 2024 and continue until the position is filled. Send questions about the position to Dr. Chrissy Spencer, Academic Professional Search Chair, chrissy.spencer@biology.gatech.edu.

Georgia Tech is located on a pleasant urban campus in the city of Atlanta and is one of the top ranked institutions in the country. Georgia Tech provides equal opportunity to all faculty, staff, and students.

Interested applicants can view and apply for this job at: https://careers.hprod.onehcm.usg.edu/-psc/careers/CAREERS/HRMS/c/-HRS_HRAM_FL.HRS_CG_SEARCH_FL.GBL?Page=-HRS_APP_JBPST_FL&Action=U&FOCUS=-Applicant&SiteId=03000&JobOpeningId=-264085&PostingSeq=1 "Spencer, Chrissy" <chrissy.spencer@biology.gatech.edu>

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GeorgiaSouthernU Bioinformatics

Bioinformatics Assistant Professor - Job Opening 266959
College of Science and Mathematics/Biology

The Department of Biology in the College of Science and Mathematics (COSM) invites applications for an open Tenure Track position of Assistant Professor of Biology focused in any area of Bioinformatics.

Founded in 1906, Georgia Southern University is a Carnegie Doctoral/R2 institution with a focus on public-impact research, serving over 25,500 students on three beautiful campuses in Statesboro, Savannah, and Hinesville, and via a growing online program. Through our degree offerings at the associate's, bachelor's, master's and doctoral levels, Georgia Southern offers a distinctive combination of community collaboration, world-class scholarship, innovative teaching, and hands-on learning opportunities.

Within this setting, the Department of Biology comprises a diverse faculty of teacher-scholars involved in a wide range of applied and theoretical research relevant to natural resources, molecular biology, and health sciences. The department provides a foundation for lifelong learning and appreciation of biological processes and biological diversity through teaching, research, and outreach. It offers undergraduate and graduate students (M.S. in Biology and Ph.D. in Environmental Science) a challenging education that is research-based and technology-oriented. The new faculty member will support the current programs in Biology and COSM, including the development of a B.S./ M.S./ ABM (accelerated bachelor's to master's) in Biomedical Sciences. Three campuses and a variety of off-campus research facilities offer Biology faculty and students access to state-of-the-art equipment in the department, including a genomics core lab, computational cluster, BSL-2 labs, an advanced Animal Care Facility, and the COSM Core Research Lab (CCRL).

Position Description: Reporting to the department chair,

the Assistant Professor in Bioinformatics requires experience in and commitment to research, teaching, and service and a doctoral degree in Biology or a related field. The position includes teaching responsibilities at the undergraduate and graduate levels. The successful candidate will develop a high-impact, externally funded research program in one or more of the following areas: stochastic/mechanistic modeling, genomics/proteomics, artificial intelligence (AI), global environmental change, or other big data computational subfields relating to biomedical or environmental sciences. This position is an academic 10-month tenure track appointment, and the salary is competitive and commensurate with qualifications and experience.

Required Qualifications: - Earned doctorate in Biology, Bioinformatics, or a closely related field, by December 15, 2023. - Demonstrated excellence in research, as evidenced by a strong publication record. - Strong potential to attract extramural funding commensurate with an R2 institution transitioning to an R1. - Willingness to engage with institutional student success initiatives. - Commitment to engaging with best practice initiatives in instruction and pedagogy, mentoring, and curriculum design and development. - Demonstrated commitment to advancing a strong and growing research and scholarship agenda and the production of research/creative activities as appropriate to the discipline.

Preferred Qualifications: - Postdoctoral research experience. - Student-centered (graduate and undergraduate) research experience. - Teaching experience at the undergraduate and/or graduate levels.

Conditions of Employment: - Must be authorized to work in the United States for the duration of employment without assistance from the institution. - All work (with limited exceptions such as research and study abroad and outside activities such as grading and email correspondence) for Georgia Southern University must be completed while the employee is physically present in the state of Georgia, unless specifically authorized by the university for a specific purpose and limited period of time within current policy. - Faculty are expected to contribute to the vibrant university community by engaging students, participating in events, and performing other responsibilities on-campus. - Faculty may be required to teach, conduct research, or perform service duties on any of the three campuses. Georgia Southern provides accessible transportation options between campuses.

Screening of applications begins January 18, 2024 and continues until the positions are filled. The preferred start date is 1 August 2024. A complete application consists of a cover letter addressing the qualifications cited above (1-2 pages); research statement (5 page max); teaching statement (2 page max); a curriculum vitae; and the names, addresses, telephone numbers, and email addresses of at least 3 professional references. Other documentation may be requested. Only complete applications

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IowaStateU ChairEvolutionDept

EEOB External Chair search

Full consideration date is 5 February 2024

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

JOB APPLICATION SITE: https://-isu.wd1.myworkdayjobs.com/en-US/IowaStateJobs/-details/Department-Chair_R13577?jobFamilyGroup=-ad349100dff401ea127be90a060a22e3 SPECIFIC RESPONSIBILITIES OF THE POSITION INCLUDE:

- Provide visionary leadership for the department to serve the needs of diverse faculty, staff, students, stake-

holders and citizens to fulfill the land-grant missions of the department, colleges and university;

- Serve the department and the college in accomplishing their missions, and be a collaborative member of the leadership teams of both colleges across all missions and academic departments;

- Communicate effectively the mission, vision and strengths of the department and colleges within Iowa State University, and to external stakeholders and collaborators in the public and private sectors;

- Encourage and foster interdisciplinary collaboration with other departments, centers, and institutes within and external to the university;

- Ensure sound fiscal and budgetary management to achieve the mission of the department and comply with college and university-level policies and practices related to fiscal responsibility and management;

- Foster an environment of collegiality in which all faculty and staff work to realize the department's purposes and are held accountable for their performance;

- Keep faculty and staff informed about policies and expectations that may affect them;

- Stimulate and facilitate excellence and professional development in all aspects of teaching, research, extension/outreach and service;

- Maintain availability to faculty, students, staff, and stakeholders, and participate in representational activities on behalf of the department and colleges, including after-hours and travel as necessary;

- Recruit and retain the best possible people in all department positions, and develop and promote an outlook and activities that enable local-to-global engagement, innovation and entrepreneurship, and sustainability;

- Recruit, retain and enable the success of a broad student body of undergraduate and graduate students who are prepared to excel in the departmental program areas, cross-disciplinary thinking, and innovation and leadership;

- Assist faculty, staff and graduate students to attain resources through extramural funding by encouraging a culture of collaboration and innovation, team science, and investigator excellence;

- Nurture and maintain effective relationships with external stakeholders, including leaders and members of Iowa's various organizations supporting the program areas in the department and the college, and the general public;

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

REQUIRED MINIMUM QUALIFICATIONS:

- Ph.D. or equivalent in any of the areas of expertise in the department or a closely aligned field

- Scholarly activities that qualify for tenure in EEOB and the rank of Professor

PREFERRED QUALIFICATIONS Evidence of demonstrated leadership in:

- Research experience relevant to the EEOB department mission:

- Organizational budget/fiscal management (e.g., of an academic department, college, or university-level unit);

- Personnel management, including recruitment, advancement, and

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MaxPlanck PlanarianDatabaseManager

The Max Planck Institute for Multidisciplinary Sciences is a leading international research institute of exceptional scientific breadth. With more than 40 research groups and some 1,000 employees from over 50 nations, it is the largest institute of the Max Planck Society.

The department of Tissue Dynamics and Regeneration (Prof. Jochen Rink) invites applications for a position as:

Model system genome database manager (f/m/x)

About us We are a young, international department and our working language is English (https://www.mpinat.mpg.de/rink). We study the fascinating ability of planarians to regenerate complete animals from tissue pieces and conduct worldwide expeditions to study the evolution of regenerative abilities within the taxon. Our scientific approach includes genome sequencing, comparative genomics and

various next generation sequencing techniques. Further, we established and maintain PlanMine, the Planarian research community's online resource (https://-planmine.mpinat.mpg.de/planmine/begin.do).

About the position

We are looking for a motivated and experienced genome researcher to spearhead and curate the further evolution of the PlanMine web resource. You will be an integral part of the department's bioinformatics subgroup and involved in our ongoing comparative genomics research. You will also interface with the local IT service provider (GWDG) and the university informatics department re technical aspects of PlanMine hosting and development. You will also bridge to the world-wide user community, e.g. by organizing curation efforts, parsing and implementing user suggestions or presenting new database features at international meetings. Thus, you will have the opportunity to remain at the cutting edge of big data management, expand your world-wide contact network or to additionally pursue your own research interests in genome evolution.

Your Responsibilities

- Overseeing the maintenance and further development of the PlanMine web resource.

- Coordinating and publishing new database releases/features.

- Implementing and overseeing web-based curation efforts.

- Developing and implementing web applications for the exploration of large datasets.

- Databasing and analysis of large biological datasets, primarily, but not exclusively produced from NGS experiments.

Your Profile

- You hold a PhD in a Life Sciences or Bioinformatics subject.

- You have extensive hands-on experience with the use, upkeep and management of model organism genome browsers.

- You are familiar with Linux-based server environments and have demonstrated experience in one or more of the following: Java/Javascript, HTML/CSS, MySQL, PostgreSQL and server administration.

- As a person, you are a team player, you have excellent communication skills, you are fluent in English and a biologist at heart.

- You are self-motivated and able to multitask/prioritize different projects.

Additional experience in one or more of the following will be considered a plus

- Community-based workshops/hackathlons.

- Biological dataset visualization on the web (e.g. intermine, bluegenes, wormbase, biomart, R Shiny).

- RNA-Seq data analysis of bulk or single cell data (e. g. clustering, differential gene expression, gene set enrichment, trajectory analysis).

- Genome/transcriptome assembly; novel gene or protein annotation, orthology assignment,comparative genome analysis.

- Advanced statistics & machine learning techniques.

- Supervision of students or other team members.

We offer

- Inspiring, world-class research environment.

- Opportunities to participate in the department's worldwide field sampling expeditions.

- Moving assistance for the ones joining us from abroad and help with getting settled in Göttingen.

- Professional training, networking and career-development opportunities; free language courses.

- On-site health management: free fitness and yoga room, sports groups, beach volleyball league, and courses for a "moving lunch break".

- A wide range of opportunities to balance work and family life, including an on-campus kindergarten and vacation care.

- Initiatives for sustainability and a green environment with an on- site biotope.

- Close proximity to the historic town center of Göttingen with rich cultural opportunities and a vibrant student scene.

- Green and peaceful surroundings that are great for running, hiking, cycling and other outdoor activities.

Recruitment

The position should be filled as soon as possible; the exact start date is flexible. The payment and benefits are based on the TVöD (wage agreement for public service personnel) guidelines. Positions are initially limited to two years with a possibility of extension.The Max Planck Society is committed to increasing the number of individuals with disabilities in

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MichiganStateU MicrobialEvolutionEcology

The Department of Microbiology, Genetics, & Immunology (formerly Microbiology and Molecular Genetics) at Michigan State University is soliciting applications for a tenure-track position at the Assistant, Associate, or Full Professor level. We seek individuals using innovative laboratory, computational, or field experimental approaches to study the ecology and evolution of microbes, microbial assemblages, and host-microbe interactions. Candidates at all levels are encouraged to apply; those applying at the Assistant Professor level will be evaluated separately from those at the Associate/Full Professor level. Successful applicants can work on any aspect of microbial evolution and ecology at multiple scales; from a single strain to complex microbial assemblages, and from free-living microbes to those that associate with multicellular hosts. The future faculty member will be responsible for undergraduate and/or graduate teaching (to be determined based on departmental need and candidate strengths) and participation in undergraduate, graduate, and postdoctoral training.

The Department of Microbiology, Genetics, & Immunology at MSU is home to numerous faculty whose research spans multiple disciplines, including, but not limited to, microbial ecology, pathogenesis, molecular genetics, and genomics (http://mgi.natsci.msu.edu). MSU MGI has a strong tradition of research in microbial ecology and evolution that extends from the Center for Microbial Ecology and the Long-Term Evolution Experiment (LTEE), which both originated at MSU 35 years ago. MSU is home to numerous institutionally supported core facilities (https://rtsf.natsci.msu.edu) and 14 field stations across diverse environments (https://www.canr.msu.edu/research/centers/), including the Long-Term Ecological Research (LTER) program at Kellogg Biological Station.

Applicants must have a Ph.D. and postdoctoral experience in Biology, Microbiology, Evolution, Ecology, or a related field, a strong record of research accomplishments in microbiology or biology, and a stated goal of conducting future research in the area of microbial evolution and/or ecology. Qualified applicants should submit an application comprising 1) a cover letter; 2) a curriculum vitae; 3) a summary of research accomplishments and future research objectives (max 3 pages); 4) a description of teaching experience and pedagogical approach (max 1 page); and 5) contact information (name, address, email and phone) for three references. The applicant's contributions towards fostering a culture of inclusive diversity and how those efforts can be integrated with the teaching, research, and service missions of the university should be integrated into the documents outlined in 3) and 4). The complete application package should be compiled into a single PDF document and submitted through the MSU Human Resources site at http://careers.msu.edu/ (posting #920214). Complete applications must be received preferably by January 22, 2024 to receive full consideration. Late submissions will be considered if a suitable candidate pool is not identified by the deadline. Questions can be directed to either of the search co-chairs, Elizabeth Heath-Heckman (each@msu.edu) and/or Sarah Lebeis (lebeissa@msu.edu).

Nina Wale PhD Assistant Professor Depts. of Microbiology & Molecular Genetics and Integrative Biology Biomedical & Physical Sciences Building Rooms 6118 (lab) & 6178 (office) 567 Wilson Road, East Lansing, MI website: www.ninawale.com twitter: @ninawaleEEB pronouns: she/her/hers

walenina@msu.edu

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MNS LouisianaStateU Three CollectionManagers

The Museum of Natural Science at Louisiana State University is seeking three Collection Managers. The open positions are in the sections of Mammals, Birds, and Genetic Resources. Each Collection Manager will be responsible for maintaining the collection, including work with physical specimens and databases. Further details can be found at the links below. The positions will remain open until filled, but we will begin reviewing applications on 26 February. Contact Jake Esselstyn at esselstyn@lsu.edu with any questions.

Apply at the following links: Mammals: https://lsu.wd1.myworkdayjobs.com/LSU/job/0120E-MJ-Foster-Hall/Collection-Manager_R00090340
Birds: https://lsu.wd1.myworkdayjobs.com/LSU/job/0113-MJ-Foster-Hall/Ornithology-Collection-

Manager_R00089582 Genetic Resources: https://lsu.wd1.myworkdayjobs.com/LSU/job/0113-MJ-Foster-Hall/Genetic-Resources-Collection-Manager_R00089583 Jake Esselstyn Museum of Natural Science Louisiana State University 119 Foster Hall Baton Rouge, LA 70803 (225) 578-3083

Jacob A Esselstyn <esselstyn@lsu.edu>

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MolecularLab Hamburg TechAssist BiodiversityChange

We are hiring: Technical Assistant in our Molecular Lab in Hamburg (Museum of Nature), LIB: https://8101202752.karriereportal.cloud/job/2023-30-Technische-Assistenz-im-Molekularlabor-(w_m_d)

Apply until January 31st 2024

Dr. Karen Meusemann

Scientific Referee & Research Coordinator, Bonn (she/her) Wiss. Forschungsreferentin, Bonn Museum Koenig Bonn LIB - Leibniz Institute for the Analysis of Biodiversity Change Postal address: Adenauerallee 127-53113 Bonn, Germany

+49 228 9122-307- mobile: +49 152 09817522

k.meusemann@leibniz-lib.de

www.leibniz-lib.de https://bonn.leibniz-lib.de Meusemann Karen <K.Meusemann@leibniz-lib.de>

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MolecularLab MarburgDE TechAssist PlantDiversity

Dear all,

We are currently offering a permanent, 50% technical assistant job in our molecular lab at the University of Marburg. Our group, led by Prof. Alexander Zizka, works on plant diversity.

Ad in English: https://stellenangebote.uni-marburg.de/jobposting/3dbb7f055f51693829941fee7e68a641dcef98e30 Ad in German: https://stellenangebote.uni-marburg.de/jobposting/bd3230a5bca8b7141dc2b993084c2a6b3b5d222c0
Best - Jan

Dr. Jan Hackel Research Fellow Biodiversity of Plants (AG Zizka) https://www.uni-marburg.de/en/fb17/disciplines/biodiversity-of-plants/ag-zizka/team-1/dr-jan-hackel Universität Marburg Raum -1338, Fachbereich Biologie Karl-von-Frisch-Str. 8, 35043 Marburg, Germany phone: +49 (0)6421 28 23378

Support society journals: Publish with us in Botanical Journal of the Linnean Society!

Jan Hackel <jan.hackel@uni-marburg.de>

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Montpellier Tech Bioinformatics

INRAE is recruiting: a position for a *research engineer **in scientific computing* will soon be opening up at the CBGP in Montpellier!

The “Centre of Biology for the Management of Populations” (CBGP) will soon be offering a permanent position for a research engineer focusing on *inference and prediction in population genomics*.

CBGP’s research focuses on arthropods that are phytophagous or vectors of pathogens, attacking crops or forests, on invasive species and reservoirs of zoonoses, which threaten food safety, biodiversity and health. Many research projects rely on the use of *computational methods developed in the **lab* to understand the evolutionary history of populations of these species and anticipate their future dynamics. Your mission will be to participate in the development and application of inference and prediction approaches in population genomics, using *artificial intelligence* methods and tools.

INRAE research engineer positions are open to holders of an *engineering degree*, a M*aster’s degree *or***a PhD*. To apply, visit the *INRAE Jobs* < https://jobs.inrae.fr/concours/concours-externes-ingenieurs-cadres-techniciens-h-f > website from *January 30, 2024*. You can also create a job alert

< https://jobs.inrae.fr/formulaire-alerte-campagne > in three clicks to receive an e-mail notification the day the competition opens.

Raphaï¿½l Leblois <raphael.leblois@inrae.fr>

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NHM Bern CuratorEntomology Malacolgy Arachnology

Natural History Museum Bern (NMBE), Switzerland

We are looking for a Curator of Entomology/Malacology/Arachnology, Team Leader (100 %) as of July 1, 2024 or by agreement.

https://www.nmbe.ch/de/museum/aktuelles/-kuratorin-fuer-entomologiemalakologiearachnologie As one of the largest research museums in Switzerland, the NMBE has valuable scientific collections, a modern research infrastructure (molecular genetics, morphology) and close links with the University of Bern. You can expect a responsible and varied job as a curator the insect, mollusc or spider collection as part of a team in our constantly changing museum.

Your tasks Responsibility for the expansion, inventory, preservation and use of the entomological, malacological or arachnological collection, including loans Planning, implementation and publication of independent research projects and collaborations Management of a scientific team Acquisition of third-party funding Involvement in teaching at the University of Bern is expressly desired Participation in public relations work and the conception and realization of exhibitions Collaboration in the implementation of the museum's educational mission (popular science publications, guided tours and lectures as well as information for the public) Collaboration with external interest groups

Your profile Degree in biology and doctorate (PhD) in a relevant field (zoology) Successful scientific work with a focus on systematics, molecular genetics, morphology and/or functional morphology of invertebrates Continuous, international publication activity in scientific journals with peer review Several years of experience in research, with scientific collections, in the acquisition of third-party funds as well as in the conception and implementation of university courses Very good language skills in German and English, French desirable Good IT skills (e.g. databases, analysis of scientific data)

The NMBE is an institution of the Burgergemeinde Bern; employment is therefore in accordance with its personnel regulations.

Please send your application documents (CV, list of publications, certificates and letter of motivation) as well as addresses of at least two references by March 15, 2024 to: hr@nmbe.ch.

Dr. Lukas Rüber Vertebrates Curator Ichthyology

+41 (0)31 350 72 82 NATURHISTORISCHES MUSEUM BERN Bernastrasse 15, CHâ€-â€3005 Bern www.nmbe.ch Eine Institution der Burgergemeinde Bern

Rüber Lukas <lukas.ruber@nmbe.ch>

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NorthCarolinaStateU DirectorBioinformaticsCenter

Bioinformatics Research Center Director

North Carolina State University seeks nominations and applications for a visionary leader as Director of its Bioinformatics Research Center. The successful candidate will lead a dynamic research center at the nexus of Biological, Molecular, and Data Sciences. This opportunity is situated within a vibrant academic community renowned for its numerous research and training initiatives and poised to achieve even greater success as these initiatives come to fruition.

The Director will report administratively to the Dean of the College of Sciences and provide leadership in interdisciplinary activities for a group of ˜20 faculty across multiple colleges and additional affiliated personnel. It is anticipated that the successful candidate will be (1) an internationally recognized scholar qualified for faculty appointment at the rank of Full Professor in a College and Department appropriate to their background, with (2) demonstrated commitment to teaching and training, and (3) a record of accomplished leadership. Exceptional candidates appropriate for the rank of Associate Professor may be considered.

The Center is aligned with the goals in the university's "Wolfpack 2030: Powering the Extraordinary" Strategic Plan, including ensuring preeminence in research, scholarship, innovation and collaboration, and leading

in developing innovative partnerships, entrepreneurial thinking and applied problem solving. The Director is expected to articulate a vision for the continuing role of bioinformatics, computational biology, and molecular data sciences in modern STEM research and training. In addition, the Director will provide a future membership plan for the Center, and engage and identify synergies with numerous other Colleges and cross-cutting units across the university.

To apply, please go to: https://jobs.ncsu.edu/postings/-195649 NC State University is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, gender identity, age, sexual orientation, genetic information, status as an individual with a disability, or status as a protected veteran. Individuals with disabilities requiring disability-related accommodations in the application and interview process are welcome to contact 919-515-3148 to speak with a representative at the Office of Institutional Equity and Diversity.

Questions about the search should be directed to the search committee chair: Prof. Kimberly Sellers (kimberly_sellers@ncsu.edu).

Gavin Conant <gconant@ncsu.edu>

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

TempleU Philadelphia Tech TimetreeDatabase

Data Technologist for the TimeTree Evolutionary Database

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

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

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

Interested persons should send an e-mail to technologist@timetree.org, stating their interest in this position, and attach their curriculum vitae which also contains contact information for three references. Review of applications will begin on 15 February 2024 and continue until the position is filled. The anticipated start date, negotiable, is 1 July 2024. Temple University is an equal opportunity, equal access, affirmative action employer committed to achieving a diverse community (AA, EOE, m/f/d/v).

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

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

TexasAM AppliedBiodiversity

Department of Ecology and Conservation Biology

Texas A&M University

Position Announcement: Program Coordinator - Applied Biodiversity Science Program (ABS)

The Applied Biodiversity Science program (ABS) at Texas A&M University seeks a full-time Program Coordinator based at the College Station campus within the Department of Ecology and Conservation Biology (ECCB). This PhD-level coordinator position will assume a primary leadership role in the ABS program, coordinating with ECCB faculty. S/he will serve as a central liaison and facilitator for faculty, students, and

our international network, actively contributing to the program's research, teaching, and outreach activities. The position supports research and professional development opportunities and is appropriate for scientists with postdoctoral experience.

ABS is a multidisciplinary initiative that offers a range of research, educational, and professional development opportunities, particularly for students, staff, and faculty at Texas A&M University. It focuses on integrating biodiversity research with practical conservation efforts. Three pillars support the program: (1) research in social and biological sciences; (2) collaboration with conservation institutions and actors in the field; and, (3) application of conservation theory to practice.

ABS is recognized for its comprehensive training encompassing several fields and degree programs. These include, but are not limited to, ECCB's undergraduate and graduate programs, and Texas A&M University's interdisciplinary Ph.D. program in Ecology and Evolutionary Biology. Participants in the program explore a wide range of subjects, from evolutionary genomics to animal behavior, landscape ecology, and the social aspects of conservation sciences. Our faculty and students, drawn from nine departments and five colleges within the university, collaborate to push the boundaries of biodiversity conservation science and practice.

The ABS Program fosters multidisciplinary research and professional training in the biological and social sciences to conserve biodiversity globally, including in the US, Latin America, and Africa.

The ABS Program Coordinator will contribute to a new phase for the ABS program, including (1) launching a state-of-the-art conservation collaboratory that partners ABS participants with NGOs and international organizations to translate research and education into tangible conservation actions; and (2) seamless integration of ABS priority areas into ECCB's undergraduate and graduate curricula.

Additional information about the program is available online: http://biodiversity.tamu.edu . Qualifications:

The Program Coordinator will have a foundation in the natural or social science approaches to biodiversity conservation and demonstrated experience with administrative and organizational tasks.

Minimum requirements:

- B.Sc. degree (PhD strongly preferred) in the social or natural sciences by the start date of the position. - At least 2 years of administrative, management, or leadership experience.

The ideal ABS Program Coordinator will have:

- Excellent interpersonal skills. - Excellent organizational skills. - Outstanding leadership skills. - Demonstrated ability to work as part of multidisciplinary teams and in diverse cultural settings. - Ability to communicate in Spanish or French is not required

but is desirable.

Responsibilities:

The Program Coordinator is a hub for the ABS program. S/he will lead the ABS program and coordinate activities for faculty, students, postdoctoral researchers, and external partners associated with the ABS program's P3 Conservation Collaboratory.

Specific duties include:

- Act as a key advisor to the ABS Executive Committee, providing critical leadership, support and guidance in various strategic initiatives.

- Provide daily oversight for the P3 Conservation Collaboratory

- Manage day-to-day activities and respond to information requests, ensuring smooth operation and effective problem-solving.

- Spearhead the development and submission of grant proposals and contracts for the ABS program and associated research, education, and outreach activities, demonstrating expertise in securing funding and resources.

- Manage external partnerships with NGOs and intergovernmental bodies, including IUCN, coordinating closely with the IUCN faculty coordinator to enhance collaborative efforts.

- The incumbent is the primary liaison for local and international partners, fostering strong relationships and effective communication.

- Orchestrate interactions among Texas A&M ABS consortium members, promoting a collaborative and productive environment.

- Organize and oversee logistics for on-campus events, demonstrating exceptional planning and coordination skills.

- Supervise and direct the webmaster in the design and regular updates of websites, ensuring digital presence aligns with

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TexasAMU LabTech MarineGenomics

The Marine Genomics Laboratory (MGL) at Texas A&M University - Corpus Christi (TAMUCC) seeks a motivated laboratory technician to join a productive team of colleagues involved in research related to the evolutionary genetics of exploited fishes. The technician will be expected to semi-independently work on projects involving next-generation sequencing, and experience preparing and analyzing large genomic data sets will be considered a plus. This is a one-year grant funded position but there will be opportunity to extend the position depending on funding and performance. More information about the MGL can be found at (https://-www.marinegenomicslab.tamucc.edu/). Please contact Drs. Portnoy (david.portnoy@tamucc.edu) and Hollenbeck (christopher.hollenbeck@tamucc.edu) directly for questions about this opportunity.

TAMU-CC is a dynamic university designated as both a Hispanic-Serving Institution (HSI) and Minority-Serving Institution (MSI) with approximately 11,000 students from 47 states and 54 foreign nations. We employ over 1,400 full-time and 2,000 part-time Islanders (including students/GAs). The University attracts highly talented faculty and staff and offers an array of undergraduate and graduate degrees, including doctoral programs. As a member of the Texas A&M University System, TAMU-CC benefits from a range of resources, increased visibility and influence, and opportunities to collaborate in mutually beneficial ways with peers across member institutions and associated agencies.

TAMU-CC's beautiful campus is located on a 240-acre island on Corpus Christi Bay and was ranked #1 College by the Sea by Best College Reviews. Our natural setting is enhanced by its modern, attractive, and state-of-the-art classroom buildings and support facilities.

>From our generous benefits package and professional development opportunities, to our retirement programs and our commitment to service excellence, the Island University is an engaging and rewarding place to work.

Learn more information here!

PURPOSE

The Research Technician will work in the Marine Genomics Lab at Texas A&M University - Corpus Christi and will be responsible for planning and performing laboratory work for several projects related to the genetics of exploited fishes.

DESCRIPTION Research support: 100%

Job Duties

- Performs standard molecular genetics techniques such as DNA extraction, gel electrophoresis, and polymerase chain-reaction (PCR) - Constructs next-generation sequencing (NGS) libraries using various methods - Modifies existing protocols and develops new protocols for next- generation DNA sequencing - Collects and analyzes field and laboratory data - Prepares reports and manuscripts for submission to granting agencies and academic journals - Constructs, modifies, adapts, assembles, and operates molecular biology laboratory apparatus and equipment - Uses computer equipment for controlling equipment and compiling data - Plans and supervises technical operations - Perform other duties as assigned

WHAT YOU WILL NEED

- High school diploma or equivalent combination of education and experience. - Three years of related experience. - Additional education may be used as a substitute for the minimum experience requirement - Knowledge of molecular biology laboratory equipment, scientific apparatus and computer equipment. - Experience with next-generation sequencing library preparation or other genomic techniques - Ability to balance multiple projects and pay close attention to detail - Ability to work cooperatively with others

WHAT THEY WOULD LIKE TO SEE

- Bachelor's degree in a related field or any equivalent combination of training and experience. - Master's degree in the biological sciences - Two years in scientific research related to molecular biology

SALARY: $19.23 HOURLY ($40,000.00 ANNUALLY. APPROXIMATELY)

This is a grant funded position and is contingent upon funding

To apply visit

https://tamus.wd1.myworkdayjobs.com/-TAMUCC_External/job/Corpus-Christi-TX/-Research-Technician-II_R-069507 "Portnoy, David" <David.Portnoy@tamucc.edu>

Tremont Manager Conservation

GREAT SMOKY MOUNTAINS INSTITUTE AT TREMONT POSITION DESCRIPTION

POSITION TITLE: Manager of Science Literacy and Research Reports to: Education Director Job Status: salaried Category: exempt Classification: regular full-time

To Apply: Submit a completed application form, resume, and thoughtful cover letter at our website [https://gsmit.org/now-hiring-manager-of-science-literacy-and-research/] Our Values and Culture We create experiential education programs focused on the natural world, knowing such learning and research opportunities are uniquely suited to bring about life-changing outcomes in individual passion for learning, sense of worth, and behavior.

We believe a lost connection with the natural world can be repaired, beginning with experiences that take place in the original classroom the outdoors. We believe such experiences produce cascading results that enrich individual lives, strengthen communities, and empower community members.

We celebrate the distinctive setting the Great Smoky Mountains National Park (GSMNP) provides as a living laboratory to explore the biodiversity that forms the building blocks of healthy ecosystems, examine past and present human impacts on the land, and navigate questions about how to best support the land that supports us.

We carry out our mission with both urgency and joy, recognizing that the work of connecting people and nature could not be timelier.

Qualities we seek: We are seeking a passionate scientist who understands the power of science & science communication. People who thrive in this role have experienced awe and wonder through outdoor exploration, and want to facilitate these experiences for others. They know that by looking at the world through a scientific and ecological lens, we begin to understand the connectedness of all things and our own role within these systems. They also understand that being told about data and science is not always the best pathway into science, and that by facilitating experiences in scientific processes and projects, they are creating connections to place and to others, and building trust in science through active participation.

The Manager of Science Literacy and Research plays a crucial role in cultivating a science identity among participants and colleagues. They understand that one's connection to the natural world is dependent on aspects of identity and demographics; some communities and backgrounds are excluded or disenfranchised from connections with nature. They work to demystify the study and exploration of nature by creating accessible pathways into science that are fun, engaging, and welcoming. They are uniquely positioned to invite curious people of all ages into the Smokies and beyond to notice the world around them through the lens of careful and consistent study.

The Manager of Science Literacy works effectively with varied audiences. This role will meet and work with a variety of volunteers, colleagues, community science volunteers, non-profit park partners, and National Park personnel to bridge the gap between science and the public. They will proactively identify and resolve the needs of these constituents, and work to find common values.

OVERVIEW of the POSITION As a key member of the program leadership team, the Manager of Science Literacy and Research strives for excellence in developing and implementing programs in line with the strategic goals, mission, and purposes of Great Smoky Mountains Institute at Tremont (GSMIT).

The Manager of Science Literacy and Research is directly responsible for developing, implementing, and coordinating, science literacy, community science, and research that support GSMIT's education mission.

KEY AREAS OF RESPONSIBILITY The following duties are normal for this position. The omission of specific statements of the duties does not exclude them if the work is similar, related, or a logical assignment for this position. Other duties may be required and assigned by the supervisor.

Organizational Leadership Provides vision, sets priorities, and creates an annual budget for community science at Tremont.

Works with the Program Leadership Team to integrate science literacy into GSMIT programs, including curricular design, lesson planning, and alignment with learning standards.

Develops and coordinates summer science camps, including design and implementation of curricula and field experiences. Maintains a role in teaching and program supervision.

Hires, trains, and supervises summer science staff in

coordination with the Education Director and Human Resource Manager. Assists with hiring, training and supervision of other program staff, especially as it relates to their involvement in community science programs.

Oversees inventory of science equipment and tools

Science Literacy Acts as a resource and thought partner for staff, including working

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TulaneU LabTech EvolutionaryGenomics

Advertisement for Lab manager/research assistant

The Chaturvedi Lab (https://chaturvedi-lab.wp.tulane.edu/) at the Department of Ecology & Evolutionary Biology, Tulane University is recruiting a laboratory manager/research assistant to work on several evolutionary genomics projects. Official start date is expected to be March 1st, 2024 and no later than April 1st, 2024.

Description: Under the supervision of Dr. Samridhi Chaturvedi, the Lab manager will support the laboratory research requirements of the Chaturvedi lab, including, but not limited to work on the Pipevine Swallowtail butterflies and their host plants, as well as other lab projects utilizing next generation sequencing approaches in non-model organisms. As a lab manager, the candidate will support the laboratory research requirements of the lab, including protocol development, equipment maintenance, supply stock ordering, and basic administrative duties. As a research assistant, the position involves extensive field work across northern united states, processing tissue and DNA extracts for next-generation sequencing (RADseq, sequence capture, and WGS) in a high-throughput research setting. Previous experience in a molecular biology laboratory is essential but not required, including experience with PCR-based protocols. The successful candidate will have a demonstrated ability to work with some supervision on large-scale projects that require attention to detail, database management and molecular skills. The Lab Assistant will also be responsible for general lab management, including equipment maintenance, supply stock ordering, and preparation of communal reagents and other lab resources.

Duties:

* Prepare and conduct field work to collect butterflies and plants

* Assist in plant growth experiments and caterpillar rearing and breeding experiments

* Extract and quantitate DNA from tissues of diverse taxa

* Prepare DNA libraries for next-generation sequencing

* Organize tissues, nucleic acid extracts, and other downstream protocol products

* Maintain detailed laboratory notebooks and spreadsheets; compile and summarize data

* Keep open communication with the Primary Investigator, lab members, and research collaborators

* Contribute to the planning and execution of thoughtful experiments to troubleshoot problematic samples

* Maintain molecular biology lab inventory, including ordering supplies and preparing reagents

* Maintain and clean lab equipment

* Ensure safety compliance

Required Experience:

* Some exposure to field research

* Experience in DNA isolation, quantitation, and PCR protocols

* Competence in common computer programs (e.g., Microsoft Office, Google Sheets, or other word processing and spreadsheet programs)

* Demonstrated excellence in organization, attention to detail, and keeping thorough and up-to-date records

* Ability to manage several tasks, keeping all on track and organized

* Ability to maintain cooperative working relationships in the laboratory

* Effective communication skills (verbal and written)

* Ability to follow and enforce laboratory safety guidelines

Term: The initial appointment will be for up to one year, with the possibility of extension.

Salary and compensation (subject to change): Around $20.5 hourly (~approximately $39,975 yearly).

Application: To apply, please contact Samridhi

Chaturvedi with a brief statement of interest and your current CV at schaturvedi [at] tulane [dot] edu

Disclaimer: Tulane University is an Equal Opportunity/Affirmative Action Employer advancing inclusive excellence. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, protected veteran status, or other protected categories covered by the nondiscrimination policy.

"Chaturvedi, Samridhi" <schaturvedi@tulane.edu>

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UCalifornia Berkeley LabManager pupfishDNA

Part-time laboratory manager position on the evolution, genomics, and development of trophic adaptations and specialized craniofacial morphology in Caribbean pupfishes

The Martin Fish Speciation Lab at the University of California, Berkeley in the Department of Integrative Biology and Museum of Vertebrate Zoology seeks a part-time lab manager for a diverse position involving laboratory animal care (pupfishes) and DNA/CRISPR technician running experiments and supervising undergraduate students. Pupfishes present a rare opportunity to investigate the rare origins of adaptive radiation and the evolution of novel niches (e.g. scale-eating) localized to only two locations, San Salvador Island in the Bahamas and Laguna Chichancanab in Mexico, despite thousands of similar Caribbean environments.

We are seeking detail-oriented applicants with interest in a highly flexible part-time position (10-20 hours per week) and some basic experience in a molecular lab with DNA extraction, PCR, and running gels. Applicants must also be interested in learning CRISPR-Cas9 injection procedure, pupfish husbandry and care, and in situ hybridization protocol.

This is a part-time but multi-year position with the possibility of renewal for at least five years. This research is funded by both NIH NIDCR R01 and NSF CAREER grants. Start date is flexible, but is available this spring, summer, or fall. Salary is based on UC hourly rates.

One major overarching goal in the lab is connecting specific adaptive variants to phenotypes to performance to fitness landscapes measured in the wild while tracing their evolutionary origins in space and time.

Required qualifications:

B.A. or B.S. or equivalent degree in biology, evolution, genetics, development, bioinformatics, or related field.

Preferred qualifications:

Highly organized and detail-oriented person with an interest in aquarium fish care and molecular genetics at the bench.

The University of California is an Equal Opportunity/Affirmative

Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sexual orientation, gender identity, national origin, disability, age, or protected veteran status. BIPOC applicants under-represented and marginalized in the sciences are strongly encouraged to apply.

UC Berkeley has a world-class community of integrative biologists studying adaptive radiation spanning the Department of Integrative Biology, the Museum of Vertebrate Zoology, the Department of Environmental Science, Policy, and Management, the Department of Molecular and Cell Biology, the Center for Theoretical Evolutionary Genomics, and more. The city of Berkeley and the surrounding San Francisco Bay Area is known for its progressive values, vibrant social and cultural scene, and beautiful surrounding environment.

Interested candidates should submit a cover letter detailing their interest in the position and relevant experience along with their CV and contact information for three references to Chris Martin at chmartin@berkeley.edu

This position is open until filled, but applications will be reviewed immediately as received. Please feel free to contact me at the below email address with any questions.

Christopher Martin

Associate Professor and Curator of Ichthyology

Integrative Biology and Museum of Vertebrate Zoology

University of California, Berkeley

chmartin@berkeley.edu

https://ib.berkeley.edu/labs/martin/ @fishspeciation.bsky.social

chmartin@berkeley.edu

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UK HealthSecAgency PathogenGenomicsBioinformatics

The UK Health Security Agency (UKHSA) has a vacancy for a Senior Bioinformatician (permanent contract).

The role will include tracking the evolution of antimicrobial resistance genetic determinants, including horizontally acquired genes, with a focus on bacteria but also fungi in national datasets. The role will also work in a team to deploy the bioinformatic analytical pipelines that will operate at scale to generate the required data.

The team is within the Healthcare Associated Infection (HCAI), Fungal, Antimicrobial Resistance (AMR), Antimicrobial Utilisation (AMU) & Sepsis Division (Clinical & Public Health group) and works closely with partners and stakeholders spanning diverse specialisms.

The role would contribute directly to one of the three priority areas of the UK's new 5 year Pathogen Genomics Strategy:

https://www.gov.uk/government/news/ukhsa-publishes-new-5-year-pathogen-genomics-strategy More information on working at the UKHSA:

https://ukhsa.blog.gov.uk/2022/02/11/a-career-in-science-past-present-and-future/ https://www.gov.uk/government/organisations/civil-service-government-science-engineering Applications close on 7th February 2024 and further details are available here:

https://www.jobs.ac.uk/job/DFJ552/senior-bioinformatician David Williams (UKHSA)

"David W." <regulars@d-dub.org.uk>

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ULisbon LabTech SpiderMiteAdaptation

The MITE2 Lab at Univ. Lisbon (cE3c/FCUL) is recruiting a laboratory technician (full-time position) to work within the project HotPest (ref: 2022.04172.PTDC).

The research done at MITE2 lies at the intersection between Ecology and Evolution. We aim at addressing the short-term evolutionary changes in populations, in ecologically relevant scenarios. We use spider mites as a research model, small arthropods that cause severe damage to several crop plants (tomato, bean, etc). We do a combination of behavioural and ecological lab experiments, coupled with field sampling and Experimental Evolution. The HotPest project explores the impact of heat on the adaptation of crop pests to pesticides and novel crops.

We seek a reliable and motivated candidate who is interested in working with both herbivores and plants. The candidate should be a team player, able to adapt to changing circumstances and new tasks, and open to collaborating with colleagues from different backgrounds.

The work plan includes 1) assisting the research team in their regular tasks (e.g., plant rearing, spider mite rearing and experiments involving plant and spider mite manipulation); 2) performing routine tasks related to genetic tests (e.g. DNA extractions, diagnostic PCRs, etc); 3) collecting and analysing data; 4) ensuring the proper functioning of the laboratory in general, namely the maintenance of stocks and all material associated with the project.

I. Admission Requirements - Having a Master's degree in Biology or similar areas - Demonstrated thorough scientific and/or professional experience with laboratory procedures relevant to the work plan, namely experience in plant biology and/or entomology and/or molecular biology

II. Preferential Requirements a) Proficiency in Portuguese and English (written and spoken); b) Relevant scientific and/or professional training in Evolutionary Biology; c) Knowledge of molecular biology techniques (e.g. DNA extraction, PCR, preparing samples for sequencing, etc.); d) Experience in data processing and analysis, namely with the R program; e) Good organizational, multitasking and teamwork skills.

To apply, please follow one of these links: https://www.euraxess.pt/jobs/182653 www.ciencias.ulisboa.pt/concursos?idE01 https://fciencias-id.pt/node/92#overlay-context=node/85 Deadline of submission: 23/01/2024 Starting date: February to March 2024

For any queries, please contact Leonor Rodrigues (alrodrigues[at]fc.ul.pt)

For more information about the MITE2 group: https://ce3c.ciencias.ulisboa.pt/sub-team/mite2 Leonor Rodrigues

Leonor Rodrigues <leonor.rodrigues89@gmail.com>

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UVictoria BritishColumbia EvolutionaryBiology

This is a unique position - open to any Indigenous science scholars - so we would welcome applications from evolutionary biologists.

Indigenous Science Scholar Faculty of Science University of Victoria

About UVic For over 60 years, UVic has proven its unwavering commitment to providing an excellent student experience in a supportive teaching and learning environment, to partnering with communities, and to pursuing research and creative activities that make an impact, both locally and globally. We are prepared to face a changing world with renewed commitment, enthusiasm, compassion and humility. Inspired by and honouring place, we are a community-minded, globally engaged university where we transform ideas into meaningful impact.

Territory Acknowledgement We acknowledge and respect the Songhees, Esquimalt and WSÃNEÄ peoples on whose traditional territory the university stands and whose historical relationships with the land continue to this day. We invite applicants to watch the "Welcome to the Territory" video and to visit the Songhees, Esquimalt, and WÌ±SÃNEÄ Nations' websites to learn more about these vibrant communities. To learn more about the Indigenous community on campus, please see the Indigenous Academic and Community Engagement (IACE) office's website.

Indigenization and Decolonization at UVic The University of Victoria is committed to the ongoing work of decolonizing and Indigenizing the campus community both inside and outside the classroom. UVic released our second Indigenous Plan in 2023 and the Faculty of Science has drafted its Indigenization Implementation Strategy (2022-2026) as we prepare ourselves for the work ahead. Decolonization and Indigenization are integral aspects of the 2023 UVic Strategic Plan and the 2022 Faculty of Science Strategic Plan.

To advance our work on Indigenization and decolonization, the Faculty of Science is excited to invite Indigenous applicants for three faculty positions in any field of Science. The three available positions are at the tenure-track assistant professor level and are cross-posted across our six departments: Biochemistry & Microbiology, Biology, Chemistry, Earth & Ocean Sciences, Mathematics & Statistics, and Physics & Astronomy.

UVic has a vibrant Indigenous community with over 1,400 Indigenous students as of 2023 and over 65 Indigenous faculty. In 2022, Qwul'sih'yah'maht, Dr. Robina Thomas was appointed as the first Vice President Indigenous and she is leading the work of decolonization at UVic. In the same year, Marion Buller, renowned legal scholar and the first First Nations woman to be appointed as a judge in British Columbia, has been appointed chancellor of the University of Victoria. Not surprisingly UVic has been ranked #1 in Canada for promoting Indigenous visibility (Maclean's 2022).

The Faculty of Science at UVic The six departments in the Faculty of Science at UVic host over 140 research-active faculty members, 400 graduate students and several dozen professional researchers and support staff. All of us are deeply committed to diversification across our ranks, particularly, although not limited to people who are Indigenous, racialized, disabled, and/or have marginalized sexualities and gender identities.

We educate 3000 undergraduate students in 30 different degree programs, and confer degrees from the bachelor to doctoral level. The Faculty of Science also supports six research centres - from forest biology to particle physics - and is host to 12 Canada Research Chairs. The University of Victoria is ranked #3 in the world for climate action (2023 THE Impact Rankings), and UVic is ranked 5th in Canada and #220 globally for research impact across all sciences (2023 Times Higher Education). All high rankings are in no small part due to the research and education conducted by researchers and instructors in our six departments. The UVic Faculty of Science is the destination of choice for curious minds.

THIS JOB OPPORTUNITY The Faculty of Science invites applications from Indigenous scholars for three tenure-track positions at the rank of Assistant Professor to commence as soon as possible.

Qualified candidates will have: - A PhD degree in either life sciences, natural sciences, mathematics, or related discipline; or expect to obtain that degree soon ("all but dissertation"). - Potential to develop an impactful, independent research program as demonstrated for example through high-quality research shared through outlets such as academic publications, interdisciplinary projects, and community-based projects. - A commitment to undergraduate and graduate education (such as supervision/mentorship) including o potential to de-

velop and teach courses. o potential to implement new teaching initiatives. o potential to supervise diverse personnel effectively and create an equitable and inclusive working

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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

UWinnipeg QuantEcolEvol

The University of Winnipeg is advertising for a tenure-track faculty member in Quantitative Ecology/Ecology Modelling. Successful candidates will demonstrate strong potential to develop an externally-funded research program in an area related to ecological and/or evolutionary principles that underlie the structure of ecological communities, landscapes, and biodiversity. Successful candidate may instruct lecture and laboratory sections of Evolution, Ecology, and Biodiversity. A link to the full position description can be found below.

https://www.northstarats.com/University-of-Winnipeg/Tenure-Track-Assistant-Professor-in-Quantitative-Ecology-Ecological-Modelling-Department-of-Biology/81103 Jens Franck Chair Department of Biology University of Winnipeg

P 204.789.1411

515 Portage Avenue Winnipeg, Manitoba, Canada R3B 2E9

uwinnipeg.ca

Jens Franck <j.franck@uwinnipeg.ca>

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

Vienna ResAssociate DrosophilaPopGenetics

Research Associate

The Institute of Population Genetics is looking for a full time Research Associate position to join the Drosophila experimental evolution team.

Starting date: the position is available February 2024, but later starting dates are negotiable.

Tasks: propagation of large Drosophila populations in the laboratory, simple Drosophila genetics and phenotyping of populations evolved at different temperature regimes.

Requirements: high motivation to make a significant contribution to a fascinating long-term evolution experiment, a good hand at handling flies, prior experience with fly work is helpful, but no requirement.

Gross salary: approx.: 2450 euro /month (14x/year)

Enquiries and applications should be sent to christian.schloetterer@vetmeduni.ac.at

Applications are being considered upon receipt and the search will continue until the position has been filled.

Christian Schlötterer Institut für Populationsgenetik Vetmeduni Vienna Veterinärplatz 1 1210 Wien Austria/Europe

Zoom: https://bokuvienna.zoom.us/j/99886139039?pwd=3DdnZXUHZlK2dkWVBxU1NXQ2NCRXhwUT09 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.schloetterer@vetmeduni.ac.at

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Villefranche-sur-Mer France EvoDevo

Dear colleagues,

The developmental biology department of the marine station at Villefranche-sur-Mer (LBDV/IMEV, CNRS/Sorbonne University) will soon open a tenure track group leader position in the field of Developmental/Evolutionary Biology. The position is for five years with limited teaching duties and a 200 k euro start-up grant. The candidate is expected to create his/her own team with appropriate funding (ATIP/Avenir, ERC...). After successful completion of the tenure, the position will become permanent without teaching duties.

At this stage, we are looking for potential candidates to express their interest by sending a CV to Alex McDougall: dougall@imev-mer.fr before mid-March 2024. The official application site will be open during the spring, and, in the meantime, we would be very grateful if you could forward this e-mail to any potential candidates.

Thank you for your help,

Best wishes,

Michael

Michael Schubert

Evolution of Intercellular Signaling in Development (EvoInSiDe) Group Laboratoire de Biologie du Développement de Villefranche-sur-Mer (UMR 7009 CNRS/Sorbonne Université) Institut de la Mer de Villefranche 181 Chemin du Lazaret 06230 Villefranche-sur-Mer France

Tel: + 33 (0) 4 93 76 37 91 Fax: + 33 (0) 4 93 76 37 92 Web: https://lbdv.imev-mer.fr/en/research/teams/-evoinside/ Michael Schubert <michael.schubert@imev-mer.fr>

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Xelect UK AquacultureGenetics

Vacancy: Scientific Officer (Aquaculture Genetics)

Xelect is one of the largest aquaculture genetics companies, providing brood stock management and genetic improvement programmes for some of the best known producers globally. We support around 30 breeding programmes, in 12 different countries for 13 different species, including finfish, shrimp and bivalves. We provide our customers with a full range of genetic services and technologies, ranging from strategic consultancy for government agencies to full genomic selection programmes for some of the biggest producers in the industry.

Our Laboratory team are integral to everything we do at Xelect. With an expert team of molecular biologists, geneticists, aquaculture specialists and bioinformaticians behind you, you will support the breeding programmes for our internal customers, through efficient sample processing and delivery of high quality genetic data. You will also help to service our smaller aquaculture producers through our rapid response laboratory services.

Our sector and company is growing fast, as we take on new customers all around the world, developing selective breeding programmes for new and established species, implementing and using the latest technologies. For our customers, working with you will be like having access to their own in-house genetics team, and you will work closely with the breeding programme managers to help them deliver and optimize their selective breeding programmes.

The life of a Scientific Officer - The role requires a good understanding of molecular biology techniques to support the routine sample processing for our customers, evaluating run performance & data quality and ensuring our high quality standards are met throughout. As we are at the forefront of a new and world leading industry we are constantly evolving our laboratory space and finding new solutions to improve and/or increase our service portfolio to make it as varied, challenging and rewarding as possible. In 2024, we plan to expand our laboratory space to introduce new genomic technologies and instrumentation to increase our sample throughput and further benefit our customers??? needs. As a key member in a focused team your input and ideas will directly influence how we work and the quality of the services we provide.

Key aspects of the role include: - Developing new genetic tools for various finfish & shellfish aquaculture species. - Smooth and efficient routine processing of samples (e.g. DNA extraction, library preparation & sequencing) in accordance to our strict Standard Operating Procedures, and liaising with the Laboratory, Analytical and Breeding Programme Management teams to ensure timely delivery of data. - Handling large datasets & working with our in-house bioinformatics & data management pipelines for upholding and maintaining high quality standards. - Performing and delivering the necessary genetic analyses using our custom built packages where needed - Maintaining our state-of-the-art laboratory while proactively seeking suggesting new ideas, tools and concepts to improve our genetic portfolio.

You'll be backed by a highly qualified multidisciplinary technical team of aquaculture experts, quantitative ge-

neticists, bioinformaticians, software developers, molecular biologists and a strong commercial team. Our headquarters are in the medieval university town of St Andrews on the East coast of Scotland. We have a modern office building and a dedicated laboratory with three Illumina?? DNA sequencers. We have developed industry-leading genetic and bioinformatic pipelines including advanced mate selection software and new technologies for genomic selection. We work closely with several leading academic institutions, including the world-leading Roslin Institute.

A culture of excellence: As you would expect from a company that was initially a spinoff from the prestigious University of St Andrews, we set a very high bar for the scientific rigour of our work. We are continually working to advance the boundaries of our sector, and frequently participate in multi-national research programmes in aquaculture genetics and breeding. We retain active links with many leading scientific and academic institutions. We are committed to supporting your development including attendance to key networking events such as trade shows, online webinars and conferences.

As a recent example, Xelect was the lead industry partner on AQUA-FAANG, a 4 year EU funded programme to generate genome wide functional maps for the six most commercially valuable species in European Aquaculture. Xelect provided genetic consultancy, developing genetic tools for the project and also contributing research outputs, including a major white paper.

We have recently been acquired by Genus PLC, is a world leader in the field of pig and bovine genetics, and we enjoy extensive scientific and technical collaboration with them on R&D projects.

Your skill sets:

— / —

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

Other

CUNY Brooklyn SummerREU UrbanAdaptation

Hi all,

Brooklyn College and the City University of New York are now accepting applications for our 2024 summer REU in Urban Ecology and the Environment (BUEE), which will run this summer from June 3 through August 9. BUEE offers an integrative summer research program aimed at developing early-career undergraduate students into mature and thoughtful environmental scientists - many of our research projects have a strong evolutionary focus, and investigate how plants and animals adapt to urban environments.

BUEE couples authentic research experiences together with practical experience in research design, scientific communication and community outreach, leveraging the unique academic and research resources at Brooklyn, including a state-of-the-art Aquatic Research and Environmental Assessment Cen-

ter < http://www.brooklyn.cuny.edu/web/academics/-centers/areac.php >, CUNY's Advanced Science Research Center < https://asrc.gc.cuny.edu/ > and the interdisciplinary Science and Resilience Institute at Jamaica Bay < http://www.srijb.org/ >, focused on urban sustainability and resilience. Students are provided with a competitive stipend, housing and food allowances, and relocation credit for travel from outside the region. Applications from STEM-underrepresented students are especially encouraged.

More information on the program, including potential projects, can be found at the program homepage at https://buee.brooklyn.cuny.edu, or by contacting the program PI at buee@brooklyn.cuny.edu. Application materials should be submitted via the BUEE homepage before March 1.

Please spread the word, and share the program with early career research-oriented students interested in learning more about ecology and evolution in an urban environment.

Best,

Tony Wilson, BUEE PI

Brooklyn Urban Ecology and Environment Program Department of Biology CUNY Brooklyn College 2900 Bedford Avenue Brooklyn, NY, 11210 United States http://buee.brooklyn.cuny.edu buee <buee@brooklyn.cuny.edu>

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ESEB EqualOpportunitiesInitiativeFund DeadlineMay1

** ESEB EQUAL OPPORTUNITIES INITIATIVE FUND **

Open call for proposals for activities that increase awareness of the problem and possible solutions. Such proposals can include, but are not limited to, short workshops (for instance, on unconscious bias) and/or seminars (with invited speakers) at your home organization, data collection, publication activities and similar events. It must be clear from the proposal how the activity will improve our knowledge and awareness of inequalities, or how the activity will improve equal opportunities directly, in the ESEB specifically, or Evolutionary Biology as a field in general.

DEADLINE: MAY 1st, 2024

ELIGIBILITY

-> The main applicant must be ESEB member (to become a member of ESEB, please visit https://eseb.org/-society/eseb-membership/).

-> Applications can be submitted by scientists at any stage of a professional career (e.g., undergraduate, Masters and PhD students, postdocs, and lecturers).

-> Applicants must provide proof of support of the host institution where the activity should take place, if applicable (letter from head of department)

-> Applicants must explain explicitly how their activity will improve our knowledge, awareness of unequal opportunities, or how the activity will improve equal opportunities directly, in ESEB specifically, or Evolutionary Biology as a field in general.

-> Applicants must detail which group of people, and how many, will benefit from this activity (for instance, 50 undergraduates, 10 graduate students, 15 faculty members)

-> Budgets should be reasonable (usually not exceeding 1000 EUR, if more is required, please contact EO committee first), and, if applicable, detail costs per person (that benefit from this—event).

HOW TO—APPLY

The application should be no more than 3 pages long (excluding CV and support letter) and include:

-> Name of the applicant(s), please indicate the main applicant if appropriate.

-> A proposal of the activity

-> A justification of how the activity will improve our knowledge, awareness of unequal opportunities, or how the activity will improve equal opportunities directly, in ESEB specifically, or Evolutionary Biology as a field in general.

-> Which group of people will benefit (students, staff, general public), and how—many

-> A detailed, justified budget (including cost per beneficiary)

-> A time schedule

-> A short summary to be published on the website (100-150 words)

-> CVs of the applicants (1-2—pages)

-> A letter of support of the host institution's head of the department

Please submit the application as a single PDF-file by email to Ute Friedrich (office@eseb.org; Subject: EO Fund) at the ESEB Office and take care to limit the size of attachments (total < 10 MB) in any one email.

Successful applications must hand in a report about the activity, including details of how funds were spent, within 3 months of the—event.

DEADLINE: MAY 1st, 2024

Dr. Ute Friedrich| ESEB Office Manager European Society for Evolutionary Biology | www.eseb.org ESEB Office <office@eseb.org>

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Euro EvoDevo TravelScholarship

Dear Evo-Devo researchers,

I'm writing to let you know that we extend the deadline for the travel scholarship applications to the *31st January*. Please see details on how to apply below.

Best wishes, Rainer Melzer (secretary) on behalf of the EED executive committee and local organizing committee

—

Dear Evo Devo researchers,

At the European Society for Evolutionary Developmental Biology we are strongly committed to the values of diversity, equality and inclusion. Our mission is to make science a more inclusive, engaged and equitable place, ensuring that we have different perspectives to create a better environment where everyone feels welcome.

Therefore, at this year's EED meeting(https://www.helsinki.fi/en/conferences/euroevodevo-2024), we would like to offer a limited number of full scholarships (travel to the conference, accommodation and conference fee cover) to students from low and middle income countries. To be eligible for the scholarship, you must be based at a research institution in a research4Life Group A or Group B country (see list here: https://www.research4life.org/access/eligibility/). We invite eligible applicants to apply in order to present their work at the meeting, to network with scientists from around the world, and to have their work recognized by their peers. Individuals from disadvantaged groups and early career researchers are especially encouraged to apply for this fellowship program.

Fellowships will be awarded by a selection committee to eligible students who meet a set of criteria (country of research organisation, career stage, justification, and scientific abstract). Successful awardees will be notified before the Euro Evo Devo abstract submission deadline, so that a registration to the conference is not required until a decision has been made on the scholarships.

Please apply via this Google form by January 10, 2024:

https://forms.gle/jH1HtBjFFB2sDkoy9 Best wishes, Rainer Melzer (secretary) on behalf of the EED executive committee and local organizing committee

"eed.soc@gmail.com" <eed.soc@gmail.com>

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

Evolution and Outreach Grants

The Society for the Study of Evolution (SSE) Education and Outreach Committee is now accepting proposals for the Small Grants Program for Local and Regional Outreach Promoting the Understanding of Evolutionary Biology.

These grants provide support for local and regional educational outreach activities to take place during 2024. Examples of past outreach activities have included public lectures, exhibits, student competitions, and professional development events for teachers.

Grants up to $1000 USD will be awarded. Applicants must be members of SSE.

Deadline: March 1, 2024

Learn more about these grants and how to apply on the SSE website: https://rb.gy/swgrn *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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MammalBiodiversity ImagingAwards Jan10

Colleagues, please note the small grant opportunity below and the approaching deadline of *10 January 2024*. We are very happy to answer questions about proposal preparation. More info can be found at the links below.

—

The Ranges Digitization Network (https://ranges-network.org/) is pleased to announce the first call for the Ranges Imaging Mini-Awards.

If you are faculty, staff, postdoc, student or researcher affiliated with an U.S. institution and need financial support to produce imagery via ï¿½CT scanning, diceCT, laser scanning or photogrammetry for your mammal trait-focussed research, then this award opportunity may be for you.

Applications are now being accepted. Learn more at (http://www.ranges-network.org/awards/).

Ranges Imaging Mini-Awards will enable researchers to extend their current research by collecting internal and potentially complex trait data at the intraspecific level that can be integrated with other specimen-level data digitized by Ranges, such as reproduction, habitat, geographic origins, or time. Projects focused on any aspect of morphological variation are welcome. Ranges, funded by NSF (DBI-2228385), seeks to digitize traits from over one million mammal specimens from 19 natural history museums, with a focus on western North America. The project will allow researchers to build better baselines for biodiversity and improve predictions of how mammals respond to changing environments to address major digitization challenges, expand the utility of specimens and use them to create new scientific knowledge.

DEADLINE: Applications must be submitted by January 10, 2024, 11:59pm Pacific Time.

-Bryan

Bryan McLean <bryansmclean@gmail.com>

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MichiganTechU REU internships EvolBiol

REU Internship in Plant Ecology and Evolutionary Biology at Michigan Technological University

Overview:We seek 2 motivated and enthusiastic undergraduate students for a summer Research Experiences for Undergraduates (REU) internship in Dr. Erika Hersch-Green???s Plant Ecology and Evolutionary Biology Labat Michigan Technological University. This is a 10-week, full-time, paid internship. Dates are flexible but will run from approximately the end of May or beginning of June till August 2024. The selected student will receive ~$600/week for the 10-week duration as a stipend, up to $1000 to defray travel costs to Houghton MI, and will be provided with research funds to support their project.

The selected students will be mentored by Dr. Hersch-Green to contribute to an ongoing NSF-funded research project thatfocusses on the interacting roles that nutrients, disturbances, plant genome size, and plant morphological/chemical/physiological traits have on community dynamics and species interactions (herbivores, pollinators, etc.). Data from this project is collected at experimental sites that are part of the NutNet and DRAGnet (for design and background see https://nutnet.org/) research consortiums in which plots are exposed to different nutrient and disturbance treatments.

Selected students will develop and conduct an independent research project that contributes to the overall goals of the larger research project. Students will have opportunities to conduct laboratory, greenhouse, and/or field work at local our experimental field site (see https://-/youtu.be/H6MtEnAIyi0).

Eligibility: Applicants must currently be a (1) U.S. citizen, U.S. national, or permanent resident and (2) an undergraduate freshman, sophomore, junior, or senior graduating no earlier than September 2024 or a high school senior that will start their undergraduate education fall 2024. We encourage applications from students from traditionally under-represented groups in biology/STEM fields (i.e., African Americans, Hispanic Americans, Native Americans, Alaska Natives, Native Hawaiians, other Pacific Islanders, students with disabilities, first generation college students, veterans, women, LGBTQ students) as well as students from institutions with limited research opportunities (e.g., community

colleges) and/or students in financial need.Applicants should be flexible to adapt to the ever-changing constraints and opportunities associated with field research.

To Apply:Interested students should submit an email to Dr. Hersch-Green (eherschg@mtu.edu) no later than March 1st that includes the following: (1) a letter of interest that describes your educational background, educational and/or career goals, and how this internship will contribute towards those goals, (2) a current curriculum vitae/resume, and (3) an unofficial transcripts; after review of applicants I will contact selected candidates for further discussion - at which time two letters of recommendation will be requested.

–

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

Erika Hersch-Green <eherschg@mtu.edu>

MolluscOfTheYear2024 DeadlineJan21

Dear mollusc lovers,

Happy new year!

The nomination deadline for international Mollusc of the Year 2024 has been extended to 21 January !!!!!!!

There is still one week to put your favourite mollusc on the list! Spread the word...

We will select FIVE molluscs for a public vote in 2024, and the winning mollusc will have its genome sequenced in the LOEWE Translational Biodiversity Genomics centre here in the Senckenberg institute in Frankfurt, Germany.

Anyone, anywhere, can nominate ANY mollusc species (as long as you can get specimens that are suitable for genome sequencing). We favour species that would not normally be considered for funding for genomics projects, and people working in countries that do not have easy access to high throughput sequencing.

Tell your friends!! Please spread this message widely.

Previous winners are 2021: Argonauta argo 2022: Polymita picta 2023: Concholepas concholepas

2024: YOUR MOLLUSC HERE https://-tbg.senckenberg.de/mollusc-of-the-year-nominations/ Species that were entered in previous years are still eligible! You are welcome to nominate your species again. And you may nominate as many different species as you like. Nomination deadline Wednesday 3 January 2024

We wish you happy holidays and a happy new year, Julia Sigwart & Carola Greve

Prof Dr Julia Sigwart Head of Section, Malacology Senckenberg Research Institute and Museum

@sigwartae | bit.ly/SMFMalacology

You could... - Download my book! bit.ly/whatspeciesmean - Join the Molluscalist email listserve www.listserv.dfn.de/sympa/subscribe/-molluscalist - See the Senckenberg Ocean Species Alliance sosa.senckenberg.de

Julia Sigwart <julia.sigwart@senckenberg.de>

SocStudyEvol DiversityCommittee ApplyNow

The Society for the Study of Evolution (SSE) Diversity Committee (DC) seeks to add at least two to four new members to the committee.

The DC works to support members from all backgrounds through several main actions:

- broadening representation to the SSE Executive Council

- pursuing initiatives that support historically excluded groups

- creating an inclusive, accessible environment at the annual Evolution meeting < https://-www.evolutionmeetings.org/ > and in evolutionary biology in general

Eligibility

Applicants must be members of SSE (join or renew your membership here: http://bit.ly/joinSSE) and have attended at least one Evolution meeting in the past. We are especially in search of members who have experience

in leading and completing successful projects related to equity and inclusion, even in challenging circumstances. We encourage applications from individuals at all career stages, including those who are grad students, postdocs, pre-tenure faculty, or in secure or post-tenure academic or non-academic positions. This year we are particularly interested in adding new members who are grad students or postdocs.

How to Apply

Applicants should submit a brief (1-2 page) statement of interest outlining three items on which applications will be evaluated:

1) their experience with Diversity, Equity, and Inclusion (DEI) service;

2) any ideas, priorities, and/or events they plan to contribute during their 3-year term;

3) the unique elements of their perspective/background that they bring to the committee.

Applications should also confirm:

- career stage and institutional affiliation

- membership in SSE

- past attendance at Evolution meetings

Deadline Please submit your application by January 15, 2024 to diversity@evolutionsociety.org. Questions may also be directed to this email address.

What does the Diversity Committee do?

Many of the DC's initiatives are created and operated with the DCs of our sister societies, the American Society of Naturalists (ASN) and the Society for Systematic Biologists (SSB). Given SSE's commitment to promoting DEI as an ongoing effort, we are open to new initiatives and ideas on how to best serve our members and the broader community.

Examples of past efforts of the SSE DC include:

- Development and administration of a climate survey < http://www.evolutionsociety.org/news/display/-2021/10/26/tri-society-climate-survey-coming-soon/ > to assess inclusion and equity in evolutionary biology, in collaboration with ASN and SSB.

- Working closely with a diversity consultant to form SSE's mission with respect to diversity, equity, and inclusion, to assess the inclusivity of SSE's policies and practices, and to develop a strategic plan for making SSE more supportive and inclusive moving forward.

- Creation of guidelines on best practices for awards procedures.

Examples of ongoing or future efforts of the SSE DC include:

- Events at the annual Evolution meeting < https://www.evolutionmeetings.org/ >, including Story Collider and mixers to build community among LGBTQ+ biologists, biologists with disabilities, biologists of color, biologists at primarily undergraduate-serving institutions, and parents (see more info here < https://www.evolutionmeetings.org/diversity-at-evolution.html >).

- Improving accessibility at the Evolution meeting for scientists with disabilities, scientists of marginalized genders, and scientists who are nursing/caretaking.

- Data collection and analysis regarding the demographic composition of SSE.

- Collaborating on major initiatives with SSE Council and the Editor-in- Chief of Evolution to improve access, equity, inclusion, and diversity in our society.

Learn more on the SSE website: https:/-/www.evolutionsociety.org/content/diversity-committee.html *Kati Moore*she/her *Communications Manager* *Society for the Study of Evolution* communications@evolutionsociety.org www.evolutionsociety.org "communications@evolutionsociety.org"

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

SSE EvolutionProgra UndergradDiversity

Applications are now open for the Undergraduate Diversity at Evolution program for undergraduate students interested in attending the in-person portion of the 3rd Joint Congress on Evolutionary Biology, or Evolution 2024 meeting, in Montreal, QC, Canada on July 26-30 (www.evolutionmeetings.org).

At the meeting, award recipients will present a poster, receive mentoring, and participate in a career-oriented discussion panel. Awardees will receive conference registration, round-trip airfare, accommodations, a meal stipend, and a ticket to the Super Social.

This is a program of the Society for the Study of Evolution Education and Outreach Committee. Learn more on our website: https://www.evolutionsociety.org/-content/education/undergraduate-diversity-at-evolution.html Deadline: January 29, 2024

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

UTexas ElPaso ClimateAdaptationProgram

Now Accepting Applications for the UTEP ROADS Post-baccalaureate program! Apply by March 1st

Are you a recent graduate or about to graduate with your bachelor's degree in Biological Science, Environmental Science, or related fields?

Not sure what your next step is?

The UTEP ROADS Post-baccalaureate program could be for you!

ROADS (Research Opportunities and Access for Diverse Scientists in Extreme Dryland Environments) is an NSF funded RaMP (Research and Mentoring for Postbaccalaureates) program that aims to provide the next generation of global change scientists with transformativeresearch training and professional development - all while engaging them within a supportive academic network at the University of Texas at El Paso and beyond.

The ROADS program is seeking applicants who have:

Received a Bachelor's degree in Biological Sciences, Environmental Science (or related field) within the last 4 years (May 2020 - May 2024)A minimum GPA of 3.0US Citizenship or Permanent Residency Why should you apply?

ROADS applicants will:

§Be awarded one-year of full support ($32.5K stipend, funds for research, travel, and subsistence)

§Develop and conduct a year-long research projectat UTEP within a faculty members lab (with potential for summer experiences at partnering universities and institutions)

§Experience innovative science that focuses on identifying the effects global change has on ecological, evolutionary, and environmental processes in the extreme dryland environments of the Arctic and Desert

§Participate in expert led workshops, seminars, and networking events that aim to enhance the professional skills needed to thrive in graduate school or STEM careers

§Have an opportunity to publish their findings in scientific journals

§Be part of a supportive and collaborative team of mentors and peers!

How can you apply? Applicants must submit:

- Online Application and Registration (https://-etap.nsf.gov/login)

- Emails of 2 professional references for letters of recommendation

- Personal essay on interest in the ROADS program and research background

- Academic Transcript

Applications for the ROADS Postbaccalaureate program are due March 1st 2024

Please see the full Application Details on our UTEP ROADS Website!

https://www.utep.edu/science/ramp/ Have additional questions?Please contact ramp@utep.edu

ramp <ramp@utep.edu>

VariationMetabolicRates

Royal Society Publishing has recently published a special issue of Philosophical Transactions B: The evolutionary significance of variation in metabolic rates organized and edited by Amanda K Pettersen and Neil B Metcalfe and the articles can be accessed at http://-www.bit.ly/PTB1896 A print version is also available at the special price of pounds 40.00 per issue from sales@royalsociety.org

Felicity Davie Royal Society Publishing

T +44 20 7451 2647

The Royal Society 6-9 Carlton House Terrace London SW1Y 5AG http://royalsocietypublishing.org Registered Charity No 207043

This email is sent on behalf of The Royal Society, 6-9 Carlton House Terrace, London SW1Y 5AG, United Kingdom.

Felicity Davie <Felicity.Davie@royalsociety.org>

PostDocs

AixMarseilleU France IntrogressionAndAdaptation

A Postdoctoral position is offered at Aix-Marseille University in population genomics focusing on the role of adaptive introgression for the persistence of marine and terrestrial biodiversity in a context of coastal pollution by past industrial activities. The project HYAM (for "Hybridization and Adaptation in a Mediterranean coastal city") is funded by the A*Midex foundation and will start in 2024. A summary of the project is given below. HYAM is led by Alex Baumel (IMBE laboratory) and Didier Aurelle (MIO laboratory) and brings together several teams offering rich and enthusiastic collaborations at the frontiers of evolutionary biology, ecology, and conservation of biodiversity.

Activities: The selected candidate will be responsible for

assembling whole genomes of several species (plants and gorgonians) and screening their diversity to detect introgression and selection marks. The raw genomic data will be partially acquired, allowing the analyses to start as soon as the contract begins. The candidate is also expected to contribute to the supervision of Master and PhD students and to scientific popularization during workshops on conservation issues related to the project with naturalists and conservationists. The project will involve a collaboration with the Calanques National Park. The candidate will beneficiate of an initial phase of environmental characterization and assessment of the genetic diversity structure of the studied organisms, and of the supports of high-performance computing and molecular biology facilities in the OSU Pytheas and at IMBE and MIO.

Requirements for the position: The candidate must have a strong background in bioinformatics and population genomics. Experience in the analysis of whole genome data and evolution by hybridization would be an advantage. The candidate must be fluent in written and spoken English. The candidate must not have completed his last degree at Aix-Marseille University.

Contract: The initial contract is for 12 months with the possibility of renewal up to a maximum of 36 months. The salary will depend of the candidate experience. The expected starting date is the 1 October 2024.

Application must be sent to hyam@osupytheas.fr with CV, covering letter, list of publications, and the email of two referees, from April 1st and no later than June 1st. The selection of candidates will be carried out by a committee from the HYAM project and based on CVs and interviews by videoconference and possibly in person.

For informal information, please contact: Alex Baumel (alex.baumel@imbe.fr) and Didier Aurelle (didier.aurelle@mio.osupytheas.fr).

HYAM abstract: Urban sprawl blurs the boundaries between anthropised and natural environments. In Marseille, this new ecology is very marked in the terrestrial and marine environments of the coastline. The effects of anthropogenic constraints on evolutionary and speciation phenomena are still overlooked. Hybridization may play a major role in the capacity to adapt to these new environments. We propose to explore the genetic limits and exchanges between species to understand the biological evolution in a littoral zone within a large Mediterranean city and its periphery. We will study terrestrial plants (Teucrium spp.) and marine sessile animals (Eunicella spp.) which have in common that they are caught in the same spiral of alteration of their environment by urbanization and pollution. In both cases, we will consider the evolution of three taxa. We will produce reference genomes that will then be used for genotyping and characterization of neutral and adaptive genetic diversity. Along pollution gradients, we will assess the demographic trend (stable or regressive populations) and look for adaptive markers and their link with hybridization. We will thus aim to understand the role of inter-specific exchanges in the evolutionary response of species to anthropogenic constraints, recent on an evolutionary scale. The results will be useful for the management of coastline marine and terrestrial ecosystems in the context of a national park.

Alex Baumel <alex.baumel@imbe.fr>

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

AuburnU GenomicsLifeHistory

Recruiting a Postdoc in the area of Genomics and/or Cell Physiology

The Schwartz Lab at Auburn University is recruiting enthusiastic and creative postdoctoral scholar to join a growing research team on an NSF-funded project: How to get SMAL: Using island dwarfism < https://www.smalproject.org/ > to understand the Shared Molecular mechanisms Across Life History Traits. This project uses the repeated evolution of body size on islands to extend our understanding of the molecular mechanisms that regulate complex traits such as body size, reproduction, and correlated traits. This research integrates across the genomics, cell physiology, endocrine function, morphology, reproduction, and ecology.

The postdoc(s) will help lead the research team in conducting genomic analyses (population & functional genomics) from whole genome resequencing data, and/or conducting common garden cell culture experiments across mainland and island populations of reptile species to link genomics and physiological function. Additional opportunities include field work in California and nearby Channel Islands, working with high school teachers, mentoring undergrad and graduate student, and being instructor of record.

Learn more here: https://www.smalproject.org/ Contact: Tonia Schwartz, tss0019@auburn.edu

Tonia

Tonia S. Schwartz, PhD Associate Professor (she/her)

101 Rouse Life Sciences Building Department of Biolog-

ical Sciences Auburn University

Lab Website: http://www.schwartzlab-ecoevolutionarygenomics.org/ SMAL Project: https://-www.smalproject.org/ tss0019@auburn.edu

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AugustanaU SouthDakota MilkweedEvolutionaryGenetics

Postdoctoral Research and Teaching Scholar in Evolutionary Genetics Augustana University, Sioux Falls, South Dakota

The Olson-Manning Lab at Augustana University in South Dakota (US) is recruiting a post-doc to collaborate on an NSF CAREER funded project related to the ecological and evolutionary mechanisms shaping hybridization in the common and showy milkweeds (Asclepias syriaca and A. speciosa). The applicant will also have the opportunity to teach as the instructor of record in team and independent settings in a department that values evidence-based pedagogy and undergraduate-driven research. The position will involve both research and teaching opportunities and is renewable annually for up to 3 years.

Research projects (75% time and effort) involve reciprocal transplant garden planting and monitoring in eastern and western South Dakota, greenhouse studies, and comparison of gene and metabolite co-expression networks architecture between the species and among species and hybrids. In addition to collaborating on the NSF CAREER-funded aims, the scholar will have the opportunity to develop an independent research program suited for undergraduate-driven research at a teaching-focused university. Applicants with a background in some of the following are especially encouraged to apply: evolutionary biology, genomics, gene expression or metabolomics, and ecological field research.

Teaching and pedagogical development will be approximately 25% time and effort of this position. This will include independent laboratory development and instruction in year 1, team teaching in General Biology courses in year 2, and development of an upper-level course in the applicant's expertise in year 2 or 3. Class sizes will be between 15 and 50 students. The faculty in the Biology Department at Augustana are committed to effective and innovative teaching and the scholar will receive mentoring from a diverse faculty.

The Biology Department at Augustana University is a diverse and welcoming community of scientists with excellent scholarship across a wide range of biology topics. Augustana is a private, primarily undergraduate university with approximately 1,800 undergraduates, but no masters or PhD programs in Biology. The Olson-Manning Lab consists of one full-time research technician, between 3-8 undergraduate research assistants, and collaborations with scientists at research-intensive universities in South Dakota and across the country. Sioux Falls is an hour's drive from the University of South Dakota in Vermillion, SD and South Dakota State University in Brookings, SD.

Augustana University in Sioux Falls, South Dakota is a small (population 200,000), growing, and affordable city. There is a vibrant and growing downtown with restaurants, shops, and art galleries. Western South Dakota is home to beautiful and unique natural areas, including the Badlands and Black Hills. Larger cities including Minneapolis and Omaha are a 3 to 4 hour drive from Sioux Falls.

Review of applicants will begin February 15, 2024 and will continue until the position is filled. Apply here: https://www.augie.edu/faculty-positions#Postdoctoral%20Scholar%20and%20Teacher,%20Evolutionar For full consideration please submit application materials by February 15, 2024. Informal inquiries are welcome:

Carrie Olson-Manning colsonmanning@augie.edu 605-274-4809 Lab website carrieolsonmanning.com

Augustana University in South Dakota is an Equal Opportunity Institution that seeks to recruit, develop and retain a talented and diverse workforce.

Carrie Olson-Manning <carrie.olsonmanning@augie.edu>

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Avignon France FunctionalEvolutionaryEcology

INRAE research unit Mediterranean Forests Ecology, URFM, Avignon (France) opens a 2-years post-doc position in functional and evolutionary ecology: "Assessing ecological and evolutionary processes in forests with assisted gene flow to rationalize management options".

Applications must be sent no later than 1st March 2024, job starting from April 2024 to August 2024 at the latest. See detailed announcement and application at /https://jobs.inrae.fr/en/ot-19540 Franï¿½ois Lefï¿½vre INRAE, Ecologie des Forï¿½ts Mï¿½diterranï¿½ennes, URFM, 84914 Avignon, France Domaine Saint Paul, 228 route de l'Aï¿½rodrome Agroparc +33 (0)4 32 72 29 01

"Francois Lefevre (PACA)" <francois.lefevre.2@inrae.fr>

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BIOPOLIS-CIBIO Portugal EvolutionaryGenomics

RESEARCHER POSITION ON EVOLUTIONARY GENOMICS AT CIBIO-INBIO, BIOPOLIS, PORTUGAL

Application deadline: 22 February 2024. MAIN RESEARCH FIELD: Evolutionary Genomics Reference: BIOPOLIS 2023-81 Job posting and application at https://www.cibio.pt/biopolis-2023-81-2/ JOB DESCRIPTION: BIOPOLIS/CIBIO (https://-cibio.up.pt/en/ , https://www.biopolis.pt/en/) is seeking a highly motivated post-doctoral Researcher in the area of Evolutionary Genomics, under a non-fixed term work contract with an expected duration of 2 years. The Researcher position is integrated in the Group EVOCHANGE, Genomics of Evolutionary Change (https://cibio.up.pt/en/groups/genomics-of-evolutionary-change-evochange/). The main aim is to use genomic sequencing data to infer evolutionary processes in natural animal populations, such as the genetic basis of colouration traits, local adaptation or introgressive hybridization, and building predictive models. The work plan consists of the following tasks: processing and analysing high throughput DNA sequencing data; creating eco-evolutionary predictive models under scenarios of climate change; managing genomic data and computational resources.

WORKPLACE: The workplace is BIOPOLIS/CIBIO - Centro de Investigação em Biodiversidade e Recursos Genéticos, Rua Padre Armando Quintas nÂº7 | 4485-661 Vairão, PORTUGAL. BIOPOLIS/CIBIO's mission is to develop world-class research in the area of biodiversity, advancing knowledge on the origins and maintenance of biodiversity, and applying this knowledge to address societal challenges related to climate and land use changes, environmental degradation, the loss and sustainable use of biodiversity and agrobiodiversity, and the management, restoration and sustainable use of ecosystems and their services. BIOPOLIS/CIBIO has 196 researchers with a PhD, which are based in several universities and research institutes across Portugal and in one University in Angola. There are 34 research groups, which are organised in three thematic lines on 1) Evolution, Genetics & Genomics, 2) Biodiversity, Ecology & Conservation, and 3) Sustainability, Ecosystems & the Environment. These research groups focus their activity on biodiversity and ecology, evolutionary biology and applied ecology, and integrate experts in complementary fields, such as molecular and population genetics, phylogeography, population biology, immunogenetics, taxonomy, ecology, functional biology, bioinformatics and computational biology, landscape management and conservation.

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

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

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

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

HOW TO APPLY: https://www.cibio.pt/biopolis-2023-81-2/ (where instructions and selection procedures are detailed). The call for applications is open until 22

February 2024. Expected starting date: 1st April 2024

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

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

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ChineseU HongKong CoralPopulationGenomics

The McIlroy Lab at The Chinese University in Hong Kong is recruiting a post-doc to collaborate on a set of funded coral population genomics projects. The postdoc will lead genomic analysis to help identify patterns of connectivity and local adaptation to stress within Hong Kong and the northwest pacific. Candidates can also expect to assist with project coordination and mentorship of junior team members including graduate and undergraduate students. Beyond this there is flexibility to develop additional projects in marine/coral ecology & evolution according to the interest of the candidate.

Our group. The McIlroy Lab is a growing team newly established at the Marine Science Laboratory at CUHK and is located on the waterfront in the northern part of Hong Kong. Consistently ranked within the top 50 universities worldwide, CUHK provides excellent infrastructure for both basic and applied research with a commitment to research excellence and global engagement. While a relatively young lab, the project and PI are well supported by collaborators locally and internationally.

Job Details. The initial contract is for 2 years with a start date within the next 6 months. The position offers a competitive salary aligned with qualifications and experience of the candidate, full benefits, and support for annual conference/workshop attendance. The position is open to a possible extension subject to funding and a good fit. Review of applications will begin 22 Jan 2023 and continue until a suitable candidate is recruited.

For more info about the lab/PI research visit www.shelbymcilroy.com and feel free to contact me directly at smcilroy@cuhk.edu.hk for additional enquiries.

For official posting and to apply see: < https://cuhk.taleo.net/careersection/-cu_career_non_teach/jobdetail.ftl?job=230003L2&tz=-GMT%2B08%3A00&tzname=Asia%2FHong_Kong >

Shelby E. McILROY Assistant Professor School of Life Sciences, CUHK

smcilroy@cuhk.edu.hk

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ClemsonU SouthCarolina ComplexTraitEvolution

The Population Epigenomics Lab at Clemson University is seeking a postdoctoral researcher to conduct research at the intersection of population genetics and quantitative genetics. The project will involve developing models of complex trait evolution in human populations using forward genomic simulation approaches. These models will then be used to explore a range of potential topics depending on the specific candidate's interests and experience, including but not limited to: the impact of selection on polygenic traits; the importance of genetic drift in phenotypic divergence; the effect of population structure on genome-wide association studies.

The successful candidate will have significant flexibility in determining the specific direction of the project. In addition to their research duties, postdoctoral researchers are also expected to prepare manuscripts for publication, assist with grant writing, and mentor undergraduate and/or graduate students.

This position will be based on the main campus of Clemson University and comes with a competitive salary based on the NIH pay scale, full benefits, and funding for conference travel. This position will be funded for two years, renewed annually, and may be extended further if funding allows. The start date for this position is flexible but may be as early as March 2024.

About the Population Epigenomics Lab:

The lab is led by principal investigator Dr. Shyamalika Gopalan and is based in the Department of Genetics and Biochemistry and the Center for Human Genetics. Research in the lab seeks to understand how genetics and the environment jointly shape complex human phenotypes over short (i.e. within lifetime) and long (i.e. evolutionary) timescales. We use computational tools to analyze genetic and epigenetic data from diverse human populations, and related species, to address our research questions. Please visit the lab website for more information about our research and publications.

For more information about the Center for Human Genetics, please visit the website https://-scienceweb.clemson.edu/chg/ . For more information about Clemson, please visit the website http:/-/www.clemson.edu/ . Qualifications:

Applicants must have, or be projected to have, a PhD in genetics, evolutionary biology, or a related field by the start date. Additionally, the successful candidate will have excellent computational and programming skills, and a strong theoretical background in population or quantitative genetics. Prior experience using evolutionary simulation software such as SLiM and msprime is preferred, but not required.

Application Instructions:

For full consideration, applications should be submitted by March 18, 2024. Review will continue until the position is filled.

Applicants should submit the following items via Interfolio at http://apply.interfolio.com/139581 (1) A cover letter describing relevant experience, research interests, and future goals. (2) A curriculum vitae (3) Contact information (telephone number and email address) for three professional references

For more information, please contact Shyamalika Gopalan at shyamag@clemson.edu.

Equal Employment Opportunity Statement Clemson University is an AA/EEO employer and does not discriminate against any person or group on the basis of age, color, disability, gender, pregnancy, national origin, race, religion, sexual orientation, veteran status or genetic information. Clemson University is building a culturally diverse faculty and staff committed to working in a multicultural environment and encourages applications from minorities and women.

shyamag@clemson.edu

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ColoradoStateU Pueblo TeachingEvolution

The Biology Department at Colorado State University - Pueblo, an HSI-serving, comprehensive, regional university, is hiring a postdoctoral scholar. The successful candidate will help administer an NSF/HSI grant (CUATRO - Creating Connected College Research Communities), focused on involving 20-25 Biology and Wildlife and Natural Resources (WANR) students in environmental research. In addition, they will teach 3 courses over a one-year appointment in Biology and WANR.

This is a one-year appointment, starting May 1, 2024 (or earlier), and includes opportunities to gain experience teaching in a small college setting. Research opportunities are broad, with the possibilities of expanding personal research or collaborating with existing faculty who have expertise in population genetics, behavioral and conservation biology, comparative and ecological immunology, plant stress responses, and biochemistry. Although the university is an undergraduate-serving institution, the department includes roughly 10 tenure track biologists, with a strong record in research and publications.

We especially encourage regional applicants with a commitment to promoting diversity in STEM and working with a student body that includes many first-generation students, low-income students, ethnic minorities, and veterans. Review of applicants will begin January 31, 2024.

Contact Fran Sandmeier (franziska.sandmeier@csupueblo.edu) for more information.

Link to job application: https://-www.governmentjobs.com/careers/colorado/jobs/-4242736/cuatro-post-doctoral-research-teaching-scholar Daryl Trumbo, PhD Assistant Professor Colorado State University Pueblo Biology Department Pueblo, CO 81001, USA Website: https://sites.google.com/view/daryltrumbo/home "Trumbo,Daryl" <daryl.trumbo@csupueblo.edu>

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DurhamU EvolutionOfMutualismBreakdown

Postdoctoral Research Associate in Mutualism Phylogenetic Comparative Methods

Durham University - Department of Biosciences, UK; 2.5 Years position

Salary: 37,099 to 44,263 GBP per annum. Grade 7

Deadline 31st January 2024

Key words: Mutualism, symbiosis, plants, pollination, seed dispersal, indirect defense by ants or mites, mycorrhiza, symbioses with N-fixing bacteria, phylogenetic comparative methods, spatial analyses.

Applications are invited for a Postdoctoral Research Associate in Mutualism Phylogenetic Comparative Methods. The project focuses on the drivers of mutualism breakdown across the main mutualisms plants are involved in, namely seed dispersal, pollination, indirect defence by ants, parasitoid wasps or mites and root nutritional symbioses (mycorrhiza, symbioses with N-fixing bacteria). Using large plant phylogenies and large databases for plant mutualisms for over 30,000 species, you will trace evolutionary transitions in these diverse interactions. Using sophisticated ancestral estimation analyses, you will identify hotspots and coldspots of mutualism breakdown across the plant tree of life, test how the level of dependency of one or several of these mutualisms affect this pattern.

Can we predict the pattern of mutualism breakdown based on the dependencies on these different partnerships? You will then translate these analyses spatially, developing new metrics and mapping tools to represent the rate of mutualism breakdown on a map. This will enable the identification of geographic hotspots of mutualism breakdown, and probe diverse environmental factors as potential drivers of breakdown. You will then develop new methods reconstruct the rate of mutualism breakdown back in time, and test whether the rate of mutualism breakdown is associated with the rate of climatic change. This will allow to test key hypotheses that have linked the breakdown of cooperation to climate change.

In a nutshell, the project will involve: (1) database curation, (2) phylogenetic comparative analyses to identify of mutualism breakdown across (2i) the plant tree of life, (2ii) space and (2iii) time, testing for a large number of potential drivers of mutualism breakdown. The large-scale nature of the project implies that there is a significant leeway in terms of avenues that can be explored in this project, beyond these key tasks. This project will involve collaboration with scientists across the globe, and you will be leading this project and managing these collaborations.

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/DFJ899/pdra-in-mutualism-phylogenetic-comparative-methods "CHOMICKI, GUILLAUME" <guillaume.chomicki@durham.ac.uk>

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golding@mcmaster.ca

"CHOMICKI, GUILLAUME" <guillaume.chomicki@durham.ac.uk>

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Eawag ETHZurich EvolutionaryEcologyGenetics

Postdoc Position in Evolutionary Ecology and Genetics

A postdoc position is available in Christoph Vorburger's lab at Eawag and ETH Zürich, Switzerland. Our research is concerned with the evolutionary ecology of host-parasite interactions in terrestrial and freshwater systems, with a particular interest in the role of symbiont-conferred resistance in insect host-parasitoid coevolution. This position is funded by the Swiss National Science Foundation (SNSF) for a project that - among other goals - aims to elucidate the genomic basis for the strong specificity observed in symbiont-mediated defense against parasitoid wasps in aphids. In addition to that, the position offers ample freedom to develop independent research within the scope of our group. The incoming candidate is also expected to take over some responsibility in lab management and in the instruction of students, especially in molecular techniques.

The ideal candidate will have a keen interest in evolutionary ecology and genetics, strong quantitative and communication skills evidenced by scholarly publications, and excellent molecular laboratory skills with experience in generating and analyzing next-generation sequencing data. A PhD is required.

The position will be linked to the Department of Aquatic Ecology at Eawag in Dübendorf, close to Zurich. We offer a stimulating and collaborative scientific environment with excellent local infrastructure and und access to state-of-the-art core facilities such as the Genetic Diversity Centre at ETH Zurich or the Functional Genomics Center Zurich. The appointment is for a maximum of 3 years and would ideally start in spring/early summer 2024.

Eawag is a modern employer and offers an excellent working environment where staff can contribute their strengths, experience and ways of thinking. We promote cultural and gender equality and are committed to staff diversity and inclusion. The compatibility of career and family is of central importance to us. For more information about Eawag and our work conditions please consult www.eawag.ch and www.eawag.ch/en/-aboutus/working/employment . Applications must be submitted by 24 February 2024 and should include an application letter describing your scientific interests and work experience and their relevance to this position, as well as your CV, including a list of publications and the contact information for 2-3 academic references.

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

We look forward to receiving your application. Please send it through the webpage below, where you will find a link to the online application form. Any other way of applying will not be considered.

https://apply.refline.ch/673277/1127/pub/1/-index.html Christoph Vorburger Eawag, Swiss Federal Institute of Aquatic Science and Technology & Institute of Integrative Biology, ETH Zürich Ãberlandstrasse 133 8600 Dübendorf Switzerland

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

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ILIM UIBK Austria EcoEvoGenomics

The Research Department for Limnology, Mondsee (ILIM), is an international aquatic research institute and part of the University of Innsbruck, Austria. Eight research groups at ILIM conduct research on evolutionary ecology in freshwater systems. Our overall research goal is to contribute to a better understanding of evolutionary adaptations of aquatic organisms in the context of climate change and other anthropogenic stressors.

ILIM, located at Lake Mondsee in the Salzkammergut close to Salzburg, has a vacancy for a:

Post-doctoral researcher (80-100%, 3 yrs) Water flea communities under global change - eco-evolutionary effects and their consequences

The position is part of the international interdisciplinary applied research project "SeeWandel-Climate". The ecosystem of Lake Constance is expected to undergo significant changes in the next few decades due to the interacting effects of continued climate warming and invasive species, such as the further proliferation of the Quagga mussel and the water flea Daphnia cucullata that have recently invaded the lake. Existing long-term data and new data enable changes in the food web to be investigated, taking into account the interaction with climate change. The data is incorporated into simulation models that forecast the changing biology and ecology of Lake Constance for decades to come. The general goal of SeeWandel-Climate is to provide projections of the consequences of climate change and the impact of invasive species on the Lake Constance ecosystem and its sustainable utilization. The large collaborative project involves researchers from 7 institutions from Germany, Austria and Switzerland, working closely with authorities across borders relying on these projections to implement integrated management at Lake Constance. SeeWandel-Climate receives funding under the Interreg VI programme "Alpenrhein-Bodensee-Hochrhein (Germany/Austria/Switzerland/Liechtenstein)" which funds are provided by the European Regional Development Fund as well as the Swiss Confederation and cantons, and the International Lake Constance commissions "Internationale Gewässerschutzkommission für den Bodensee" (IGKB) and "Internationale Bevollmächtigtenkonferenz für die Bodenseefischerei" (IBKF).

The Daphnia water flea subproject aims to investigate and predict consequences of the recent invasion of Daphnia cucullata for the ecology and evolution of the Daphnia community and for the zooplanktivorous fish populations. D. cucullata has recently and rapidly increased in abundance in Lake Constance, presumably favoured by the expansion of the stickleback population into the pelagic zone and increasing water temperatures. D. cucullata is a member of the D. longispina complex and can thus hybridize with the resident D. longispina, D. galeata and their hybrids. D. cucullata differs from the other members in the complex with regard to body size, reproductive output, spatial distribution, vulnerability to predators etc., and its occurrence is expected to change the genomic makeup and traits of the Daphnia community in Lake Constance with direct effects on the fish community.

Specifically, this project aims to i) investigate the evolutionary consequences of the D. cucullata invasion for the Daphnia community using whole-genome data (e.g., hybridization and admixture), ii) assess the spatio-temporal distribution of D. cucullata, other members of the complex and their hybrids and community traits in the context of abiotic and biotic parameters, iii) experimentally test effects of Quagga mussel and temperature on competition among Daphnia taxa, and iv) integrate Daphnia data generated in this subproject with data on zooplankton and fish generated in other subprojects and available long-term datasets for Lake Constance to assess causes and consequences of the D. cucullata invasion.

This subproject also includes collaboration with Dietmar Straile (University of Constance), Alexander Brinker (Fisheries Research Station of Baden-Württemberg), Alexandra Anh-Thu Weber, Piet Spaak (both EAWAG) and other researchers in this international project.

The candidate is expected to: i) conduct fieldwork (spatio-temporal distribution), ii) generate and analyze whole-genome data for several hundred Daphnia individuals, iii) lead competition experiments, and iv) interpret and publish the project results through peer-reviewed articles and translational material dedicated to practitioners and stakeholders.

There will opportunities to develop the postdoc's own research interests, and to assist in the supervision of Bachelor and Master students.

Ideally, the candidate has a strong background in evolutionary ecology and/or bioinformatics, and has recently earned a PhD in a relevant field of evolutionary biology or ecology. Fieldwork experience and experience in conducting laboratory experiments would be additional

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InstPasteur Paris FungalPathogenEvolution

Post-doctoral research position available in the Janbon Lab

Key words: Mycology, RNA, extracellular vesicles

Context: In human fungal pathogens, extracellular vesicles have been shown to play a role in cell intercommunication and host pathogen interactions. Yet, the physical bases of the exchanged messages and their mechanism of action remain mostly unknown. By analogy with other systems, one can anticipate that some RNAs could play essential roles. This project will study the fungal EV transcriptome structure and of its variation in response to environmental cues. It is also aimed to set up in vitro communication assays to decipher the mechanisms by which the EV message is sent and received in fungi. Finally, it seeks to understand the impact of cell-to-cell intercommunication in host-pathogen interactions.

The Janbon lab is part of the Mycology Department at the Institut Pasteur. Guilhem Janbon is also one the leader of the Pasteur International unit "Fungal extracellular vesicles" together with Robin May (University of Birmingham, UK) and Marcio Rodrigues (Fiocruz, Brazil). Part of the work will be carried out in collaboration with the May lab and the Drummond lab (University of Birmingham, UK). The Institut Pasteur is an equal opportunity employer and offers a vibrant scientific environment with a particular focus on microbiology and the study of infectious diseases.

Lab website: https://research.pasteur.fr/fr/team/rna-biology-of-fungal-pathogens/ Qualifications: We seek a highly motivated individual with a Ph. D degree in microbiology, mycology and/or related field. The candidate should have significant research experience, a strong publication record, as well as excellent verbal and written English communication skills. Speaking French is not mandatory. Knowledge of computer programming (python, R) is advantageous, but not required. Recent PhD graduates with experience in fungal genetics, transcriptomic and biochemistry are preferred. Experience

in the study of host pathogen interactions would be a plus. The position is for 3 years, and the candidate will be expected to start in 2024.

To apply: email: guilhem.janbon@pasteur.fr . Candidate should include a statement of interest and future goals, CV and 3 reference letters from professional familiar with their scientific abilities.

Guilhem Janbon Unité Biologie des ARN des Pathogènes Fongiques Département Mycologie Institut Pasteur 25 rue du Dr Roux 75015 Paris France 33 1 45 68 83 56 https://research.pasteur.fr/fr/team/rna-biology-of-fungal-pathogens/ https://research.pasteur.fr/fr/department/mycology/ Guilhem JANBON <guilhem.janbon@pasteur.fr>

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KewGardens London AshTreeGenomics

Postdoctoral Research Associate in genomics at Royal Botanic Gardens, Kew, London

We are seeking a Postdoctoral Research Associate to conduct genomic analyses for European ash (Fraxinus excelsior). The post holder will refine the existing ash pangenome and use it to analyse structural variants associated with low susceptibility to ash die back disease, a critical threat to UK forest ecosystems. This project contributes to the science programme within the recently established Centre for Forest Protection (CFP; www.forestprotection.uk) and represents an exceptional opportunity to become part of this wider initiative and interact with scientists workingacross twelve other research projects.

We are seeking candidates holding a PhD or equivalent in a relevant research field (e.g. evolutionary biology, genomics, population genetics) and with expertise in the analysis of large genomic datasets and developing bioinformatics pipelines.

For full details see: https://careers.kew.org/internal/vacancy/postdoctoral-research-associate-547466.html Closing date -16th January 2024

Informal enquires should be addressed to Dr Laura Kelly, Research Leader, RBG Kew: l.kelly@kew.org

The Royal Botanic Gardens, Kew is a non-departmental public body with exempt charitable status, whose principal place of business is at Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AE, United Kingdom.

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Laura Kelly <L.Kelly@kew.org>

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LaTremblade France SpatialEpidemiology

Dear colleagues,â€â€

We 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 of Ifremer-Station of La Tremblade). The detailed job description and the application form are accessible through this link: https://ifremer-en.jobs.net/en-GB/job/post-doctoral-position-in-spatial-epidemiology-m-f/J3V43G5WTG9DHNZCQK0 Please, feel free to share this opportunity with anyone who may be interested.

Best regards,

Maude Jacquot and Simon Dellicour

Signature-mail-Ifremer

*Maude JACQUOT * Chargée de recherche en épidémiologie moléculaire PDG-RBE-ASIM

Ifremer - Station de La Tremblade Avenue de Mus de Loup - Ronce les Bains - 17390 La Tremblade Tél. 05 46 76 26 82 - 07 72 10 66 09 maude.jacquot@ifremer.fr *www.ifremer.fr/maude-jacquot* *www.ifremer.fr*

Maude Jacquot <maude.jacquot@ifremer.fr>

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MarianU PolyploidAmphibianGenomicsEvolution

As a part of a diverse community of faculty and staff who represent many faith systems and worldviews, the College of Arts and Sciences at Marian University-Indianapolis seeks qualified applicants for a Postdoctoral Scholar. The Postdoctoral Scholar will work alongside Dr. Rob Denton in the Department of Biology and participate in NSF-funded research on the mitonuclear conflict and co-evolution within polyploid salamanders. Preference will be given to those with a record of conducting scientific research in evolutionary biology and genomics and the potential for excellent teaching and leadership. The Postdoctoral Scholar will promote our Catholic Franciscan mission and identity by working closely with other faculty in Biology and teach ~1 course per academic year. The position will be funded up to three years pending satisfactory yearly performance evaluations. The salary will be $55,000 and includes benefits. Start date can be as soon as May 2024.

The Department of Biology at Marian University is a collaborative and growing academic community committed to fostering student engagement, problem solving, and communication. Marian University believes that to grow stronger it is essential to recruit and retain a diverse faculty and staff to build an inclusive community. Thus, we welcome and encourage applications across the intersections of diverse races, ethnicities, religions, sexual orientations, gender identities, ages, socio-economic backgrounds, political perspectives, cultures, and national origins.

Essential Duties and Responsibilities: - Collect data, lead analyses, and communicate results (presentations, peer-reviewed manuscripts) on projects related to NSF CAREER grant #2045704 - Teach approximately one Biology course per year - Mentor undergraduate researchers as they develop and implement independent research projects - Assist in the caretaking of live research animals - Participate in career development programming offered through the PI and Marian's Center for Teaching and Learning - Join the PI in building a respectful, welcoming academic environment in which students from all backgrounds can develop and make progress towards their goals - Actively engage the Catholic Franciscan mission and identity of Marian University by modeling the Franciscan Sponsorship Values, honoring the legacy of the founding congregation, promoting unity in diversity, and integrating the Catholic Franciscan intellectual traditions in programs and services.

Required Qualifications: - A PhD in a related field (Evolutionary Biology, Genomics, Integrative Biology, etc) to be awarded prior to the official start date - Experience in bioinformatics (Examples may include but are not limited to evolutionary genomics analyses, whole genome sequencing of non- model species, RNAseq and comparative transcriptomics). - Potential for excellence in teaching and leadership - Demonstrated ability to work with colleagues and students of diverse backgrounds.

Review of applications will begin immediately and continue until the position is filled. Applications require a cover letter, a current CV, contact information for two professional references, and responses to the supplemental mission questions.

Application link: https://marian.peopleadmin.com/-postings/2368 Contact: Rob Denton <rdenton@marian.edu> Website: dentonlab.org

Robert Denton <rdenton@marian.edu>

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Marseille Anthropobiology

Post Doc Position :

We are looking for a motivated and independent postdoctoral researcher with experience in ancient DNA and evolutionary genomics, who enjoys working in an interdisciplinary research environment.

About the project

Our project is part of a multidisciplinary and innovative framework focused on contrasting the genomic evolutionary histories of a pathogen, Yersinia pestis,

and its human host. Yersinia pestis was responsible for the most-deadly epidemics in Eurasia in Medieval history, killing up approximately half of the European population by the mid-14thcentury. It was also the key pathogenic agent of the epidemics that raged in Provence between 1720 and 1722, which is not only well-documented by extensive historical archives, but also by a considerable number of human skeletons, uncovered through archaeological excavations. Combined, these archives offer a unique window into the genomic makeup of the pathogen and their victims, promising to gain unprecedented insights into the biological and social factors underlying virulence, disease susceptibility and resistance, potentially revealing biological inequalities amongst the population exposed.

This project is a stepping stone to a larger joint project between UMR ADES and the Centre for Anthropobiology and Genomic of Toulouse (CAGT, France). The selected Postdoctoral researcher will join the French A*midex project entitled “MPMH: memory of plagues, memory of humans”, led by Dr Caroline Costedoat.

Missions

The ideal candidate will show first-hand experience in ancient DNA research, including for generating and analyzing next-generation DNA sequencing data. S/he and will have an established record of research achievements and publications and will be able to work in a highly international and multidisciplinary research environment. The postdoctoral researcher selected will dedicate 100% of his/her time to the project and will be in charge of its daily implementation. S/he will have the capacity to communicate his/her research progress to a team of experts in ancient DNA research and evolutionary genomics, as well as archeo-anthropologists and historian experts of the second plague pandemics.

When and Where : Administrative information

The postdoctoral position corresponds to a two-year appointments, ideally starting in early 2024. The candidate will be recruited by Aix Marseille University and will take up his/her post in Marseille. However, he/she will be required to move to the Centre for Anthropobiology and Genomics of Toulouse for the remainder of the project mainly under the supervision of Dr Ludovic Orlando.

To apply please send to Caroline Costedoat (caroline.costedoat@univ-amu.fr) and Ludovic Orlando (ludovic.orlando@univ-tlse3.fr): your CV, the names and contact details of three references, and a cover letter describing your research and training backgrounds, and your main strengths for making this collaboration a success. Those applicants showing the best profiles will be invited for an online interview.

COSTEDOAT Caroline <caroline.costedoat@univ-amu.fr>

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

MaxPlanck Tuebingen EvolutionaryGenomics

Dear EvolDir,

The lab “Evolutionary Genomics of Complex Traits” led by Luisa F. Pallares is looking for a postdoctoral researcher to join our team in beautiful TÃÂ¼bingen (Germany) - pallareslab.org

Our lab: We are an open, supportive, and intellectually stimulating group of international people. Our expertise combines genomics, population genetics, molecular biology, experimental evolution, high-throughput phenotyping, evolutionary theory, and work with Drosophila flies.

The lab is located in the Friedrich Miescher Laboratory of the Max Planck Society which is part of the Max Planck Campus in TÃÂ¼bingen, Germany, where we work closely and socially interact with the MPI for Intelligent Systems, MPI for Cybernetics, MPI for Biology, and the University of TÃÂ¼bingen. The lab has access to state-of-the-art facilities on campus and is very generously funded by the Max Planck Society.

Feel free to contact anybody in the lab to inquire about our working dynamics and supervision style (pallareslab.org/members)

The position: The position is initially funded for three years; the starting date is negotiable. Salary and benefits are set according to the German TVoD regulations (E13 100%). The lab offers additional support for professional development and networking, and our postdocs are supported by the Max Planck Society with career development training and opportunities.

The Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals. The Max Planck Society endeavors to achieve gender equality and diversity. Furthermore, the Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

Your profile: You are interested in Evolutionary Biology, in particular Evolutionary Genomics, and have experience working with big omic datasets. Modelling expertise within a population genetics framework and/or expertise implementing systems biology approaches will be ideal.

The focus of the project is to understand the evolution of robustness-regulating loci using experimental evolution data. The lab explores variation across many levels of the genotype-phenotype map (from transcriptional to morphological to functional variation) and therefore the specifics of the project will be discussed with every candidate depending on their expertise and scientific interests. * To apply:* Please send a motivation letter and CV that includes two references to Luisa F. Pallares (luisa.pallares@tuebingen.mpg.de). The applications will be reviewed starting on February 29th and will continue until the position is filled.

Cheers, Luisa

Luisa F. Pallares Max Planck Research Group Leader

Friedrich Miescher Laboratory of the Max Planck Society Max-Planck-Ring 9 72076 TÃÂ¼bingen Germany T: +49(0)7071 601 810

PallaresLab.org

“Luisa F. Pallares” <luisa.pallares@tuebingen.mpg.de>

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MichiganTechU PlantEvolEcol

Postdoctoral Researcher Opportunity in Plant Evolutionary Ecology at Michigan Technological University

I have funding for a Postdoctoral Researcher to join my lab group (Erika Hersch-Green) in the department of Biological Sciences at Michigan Tech University. The successful candidate will contribute to research in alignment with an NSF-funded project (link to full abstract), which aims to understand whether and how nutrient availabilities affect plants differently based upon their genome sizes and whether this contributes to the structuring of biodiversity patterns from the molecular and functional attributes of organisms to multispecies assemblages. Our field work is done locally (https://youtu.be/-H6MtEnAIyi0) and in collaborations with national and international scientists (see: https://nutnet.org/home OR https://dragnetglobal.weebly.com/).

Position Details

?? The postdoctoral researcher will be integrally involved in the design and implementation of transcriptome/greenhouse experiments and/or field experiments, data analysis and manuscript preparation of newly collected and back-logged data, presentations at conferences, collaborative workshops and discussions, the mentoring of students, and outreach activities.

?? Our research group values diverseperspectives and a healthy work-life balance, and I am specifically looking for a postdoctoral researcher that will take work seriously and support and maintain a respectful, enjoyable environment for everyone.

?? The anticipated start date is Spring 2024, but this is negotiable.

?? The position is for 1 year with a potential extension up to 18 months and includes a minimum salary of $55,000 plus benefits.

Qualifications

?? Required: (1) A Ph.D. in ecology, evolution, environmental science, molecular genetics, or a closely related field (completed before start date).(2) Substantial experience in field biology or genomics research including bioinformatic skills. (3) Excellent writing, presentation, and statistical analysis skills and a publication recordcommensurate with time since degree completion.

?? Desired: (1) Experience mentoring students, managing dynamic projects and maintaining successful collaborations.(2) Clear communication skills, evidence of outreach and collaboration, and dedication tomaking science welcoming to everyone.

Application Procedures: If you are qualified and interested in this opportunity, please contact Dr. Erika Hersch-Green via email(eherschg@mtu.edu) and include in a single PDF the following: (1) a cover letter summarizing research interests, professional experience, and career goals, (2) a CV including a complete list of publications, and (3) contact information for three professional references.Review of applications will begin January 31, 2024, and the position will remain open until filled. Individuals from traditionally excluded groups in science and higher education are encouraged to apply.

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

Links for more information about the university and its surrounding area: Michigan Tech Home Page (http://www.mtu.edu), Dept. of Biological Sciences (http://www.mtu.edu/biological/), Research Centers (https://www.mtu.edu/research/about/centers-institutes/),

Recreation/Things to do (http://www.mtu.edu/recreation, https://www.keweenaw.info/attractions/, http://visithoughton.com/attractions-entertainment/).

Michigan Tech is proud to be an ADVANCE Institution that has thrice received National Science Foundation support to increase diversity, inclusion, and the participation and advancement of women and underrepresented individuals in STEM. (see https://www.mtu.edu/advance/).

Michigan Technological University is an Equal Opportunity Educational Institution/Equal Opportunity Employer, that provides equal opportunity for all, including protected veterans and individuals with disabilities.

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

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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

MNH UFlorida PlantDistributions

Job Title Postdoctoral Research Associate Florida Museum of Natural History, University of Florida

Proposed Salary $60,000

Duration Position is negotiable for two-three years.

Start Date Negotiable

Deadline for Applications We will screen applications immediately; prefer to fill by April 1, 2024

Basic Job Description/Project Goals Our NSF-funded project has ambitious goals–identify eco-evolutionary drivers of plant distributions, predict the effects of climate and land use changes on future distributions of North American seed plants, and relate the results to improve knowledge for conservation. Specifically, we will (1) incorporate newly developed occupancy-based approaches that can reduce bias and uncertainty in recent past to present trends in plant range losses; (2) include and merge trait diversity with spatial phylodiversity patterns; (3) utilize traits with occupancy trend results to assess which plant lineages and geographic areas may be most resilient and most at risk in the face of change; and (4) use these three approaches for a conservation focus that considers forecasting the effects of projected land-use and climate change.

Major/Essential Duties We seek a researcher with computational skills, preferably in the general area of spatial phylogenetic approaches; broad interests in biogeography, systematics, community assembly, evolutionary ecology, diversification, and spatial phylogenetics are desired. Work will include building distribution and occupancy-based models on a grand scale for seed plants of North America with concomitant assembly of trait matrices. The postdoc will also work in close coordination with other team members (i.e., UC Berkeley, Virginia Tech, Univ Michigan). For example, our larger group will assemble a high-resolution phylogeny of the seed plant flora of North America. This phylogeny will be the framework for the noted studies of spatial phylogenetics and trait evolution. In addition to research activities, graduate student mentoring and public outreach are desired.

Required Education Ph.D. in relevant field

Preferred Experience/background Strong background in spatial phylogenetics and in computational methods. Solid verbal and written communication skills. An ability to work well with others to promote a supportive and collaborative inter-laboratory culture.

For full consideration, applications should be submitted by March 1, 2024, to Ms. Flora Marynak at flora.marynak@ufl.edu. Please attach as a single pdf the following items: (i) cover letter addressing background/experience/interests related to the project goals, (ii) curriculum vitae including contact information for three potential references, and (iii) two relevant research publications (published or submitted).

Questions, please contact Rob Guralnick, rguralnick@flmnh.ufl.edu Pam Soltis, psoltis@flmnh.ufl.edu Doug Soltis, dsoltis@ufl.edu

"Soltis,Douglas Edward" <dsoltis@ufl.edu>

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Montpellier BioinformaticDataSciences

We are seeking a Post-doctoral researcher in Data Sciences - CEFE/IRD, Montpellier, France Position opened from April 2024 for 12 months

Working environment :

The successful candidate will be based at the CNRS in Montpellier, within the Centre d'Ecologie Fonctionnelle et Evolutive (UMR CEFE) in Montpellier, France. He or she will also work closely with IRD's UMR DIADE and will be supervised by an interdisciplinary team based in Montpellier. The CEFE is currently the largest research center in ecology and evolutionary biology in France, providing a stimulating working environment and a wealth of logistical and technical support. The proposed position is part of the project "SAGHAS" (Sowing AGrobiodiversity to HArvest Sustainability), which is funded by a program "ERC Tremplin" by the University of Montpellier.

Missions

The SAGHAS project aims to assess how the crop biodiversity present in agricultural systems today can meet expectations in terms of agronomic, environmental and social roles, and how the multidimensional space defined by these different roles could be optimized to promote adaptation to future environmental conditions. Drawing on a database of existing agronomic, ecological, genetic, environmental and social information on cultivated plants worldwide, the researcher recruited will be tasked with

- study existing avenues for exploring and aggregating the heterogeneous data in the database into indexes.

- develop ideas on how best to integrate these data to meet the project's objectives.

- produce a summary of existing indices, their advantages and shortcomings in terms of the project's objectives and identify possible needs for completing the initial database.

Activities

- bibliographical research on indices and, more generally, on the mathematical manipulation of data to synthesize genetic, agronomic, ecological and social information. The research will initially focus on agrobiodiversity and will then be extended to themes that will enable us to consider the integration of these data at an interdisciplinary level.

- mathematical construction adapted to the objectives of the project, based on the results of the bibliographical research, and application to an existing database.

- identification of data gaps to be filled

- drafting of publications

Profile

The successful candidate will have held a PhD degree for less than 3 years.

- Expertise in mathematical data manipulation, index creation, or other synthetic representation of information.

- Computer skills, data processing, database interrogation and manipulation.

- Knowledge of agricultural systems

- Interdisciplinary interest, curiosity and open-mindedness

- Rigorous work ethic, excellent organizational skills, ability to synthesize information

- Ability to work independently and as part of a team

- Writing skills in French and English

Desired level of education: PhD

Desired experience: less than 3 years after thesis

How to apply

CV and cover letter should be sent to Cécile Berthouly: [cecile.berthouly@ird.fr,] Delphine Renard : [delphine.renard@cefe.cnrs.fr] , Adeline Barnaud : [adeline.barnaud@ird.fr] and Anne-Céline Thuillet : [anne-celine.thuillet@ird.fr]

and will have to be also submitted on the website of the University of Montpellier : [https://-umemplois.umontpellier.fr/] (once this offer is published on the website, from 05/02/2024, date to be confirmed)

Job reference to be included in your cover letter: 2024-R0105

Applications close on 15/03/2024 at 23:59 but will be examined on an ongoing basis.

Contacts for job information :

Cécile Berthouly : [cecile.berthouly@ird.fr]

Delphine Renard : [delphine.renard@cefe.cnrs.fr]

Adeline Barnaud : [adeline.barnaud@ird.fr]

Anne-Céline Thuillet : [anne-celine.thuillet@ird.fr]

anne-celine.thuillet@ird.fr

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

Montpellier EvolutionaryMicrobiology

Dear all,

A 2-years post-doc position is available in Montpellier to work on the genomic and evolutionary aspects of the propagation in the environment of antibiotic resistances of public health concern.

The postdoc will work in the context of the WATERISK project, funded by the ExposUM Institute (University of Montpellier). The aim of this project is to identify genomic and phenotypic characteristics determining the enrichment of emerging antimicrobial resistance genes of public health concern in hydric environments. WATERISK focuses on emerging resistances to Â£- lactams in Gram-negative bacteria and is designed at the local scale (watershed of a coastal river and hospitals from the Montpellier area). This project is composed of three main parts: (1) building a resistant isolates collection, (2) obtaining and analysing the genomes of the isolates of the collection and (3) characterizing the phenotype and evolutionary potential of associations of plasmid and strains from the collection.

The postdoc will be in charge of the second part and will conduct the genome sequencing analysis of a collection of 500 Enterobacteriacea isolates collected at Montpellier University Hospitals and at different points along the coastal river. The goal of this analysis will be to identify the association of antibiotic resistance genes with strains, species, mobile genetic elements and other resistance genes across environments to better understand the circulation of antibiotic resistance genes. The postdoc will also participate in the characterization of the evolutionary potential of strain-plasmid associations by designing and implementing an experimental evolution approach and contributing to the phenotypic and genomic characterization of the evolved lines.

The postdoc will be based at the Centre for Functional and Evolutionary Ecology (CEFE) in Montpellier, in the Evolutionary Genetics and Ecology team and will work in close interaction with the Physe team (Hydric Pathogens Health and Environment) at the Hydroscience institute in Montpellier. The CEFE is the largest French laboratory for ecology and evolution. It includes common services in molecular biology and chemistry, as well as several groups dedicated to evolutionary ecology. The Genetics and Evolutionary Ecology team is a very dynamic and stimulating scientific environment, with 11 permanent researchers and 10 to 15 PhD and post-doctoral students. HydroSciences Montpellier laboratory brings together disciplinary skills to study, quantify and forecast the impacts of climate and human activities on water resources in Mediterranean and tropical regions. Among the main themes studied is the dynamics of emerging contaminants and the health risks and adaptation mechanisms of waterborne pathogenic bacteria.

Candidates are expected to hold a PhD in evolutionary biology or microbiology and to have confirmed skills in genomics. Expertise in experimental evolution will be a plus but is not mandatory.

The position is for 2 years; the expected starting date is April 1st 2024. Net monthly salary around 2100 euros.

To apply, please send a CV, a cover letter and the contact for two references to Stéphanie Bedhomme (stephanie.bedhomme@cefe.cnrs.fr) and Estelle Bilak (estelle.bilak@umontpellier.fr) before February 12th, 2024.

Stéphanie Bedhomme

CR CNRS Equipe Génétique et Ecologie Evolutives Centre dÂÂEcologie Fonctionnelle et Evolutive Montpellier

Stephanie BEDHOMME <stephanie.bedhomme@cefe.cnrs.fr>

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

Montpellier EvolutionaryMicrobiologyGenomics

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Stéphanie Bedhomme

CR CNRS Equipe Génétique et Ecologie Evolutives Centre dÂÂEcologie Fonctionnelle et Evolutive Montpellier

Montpellier Three ModellingEvolution

Post-doctoral research associates (up to 3 positions) - Marine ecosystem modelling - IRD, IFREMER, MARBEC laboratory, Montpellier, France

DECSRIPTION:

Applications are invited for up to three postdoctoral research associates in ecosystem modelling.

The successful applicants will join MARBEC, one of the largest French laboratories in marine biodiversity, gathering research teams from IFREMER, IRD, CNRS, University of Montpellier, and INRAE research organizations. The postdoctoral program will be funded by Horizon Europe (FutureMares, Bioceans5D, and Act-Now projects), the French Priority Research Program Oceans and Climate (Mediation project), and France Filière Pêche (Adapt project).

The postdoctoral fellows will work on the development and application of marine coupled hydrodynamic/ecosystem/economic models, investigating plausible futures of marine biodiversity and ecosystem services under a panel of climate change and fishing scenarios.

The research work will use the multispecies OSMOSE modelling platform, with one or more of its submodels addressing fish bioenergetics (bioen-Osmose), eco-evolutionary dynamics (Ev-Osmose), and fisheries bioeconomics (Ec-Osmose). Applications will be developed in different ecosystems: the Mediterranean Sea (whole basin, and gulf of Lions), and the North Sea.

Applicants with various backgrounds are encouraged to apply and should have less than three years of experience after their PhD. Specifically, we are looking

for young researchers with relevant expertise to work in the following areas: 1) bioenergetic and evolutionary modelling based on fish life-history traits to explore eco-evolutionary dynamics and the resilience/hysteresis of fish populations; 2) fisheries bio-economic modelling to explore the trade-offs and synergies between biodiversity conservation and fisheries management; 3) coupling biogeochemical and ecosystem models to explore feedback loops between low- and high-trophic level species and their impact on ecosystem dynamics.

QUALIFICATIONS

- PhD in ocean sciences, ecology, or any related field, obtained less than three years before the start of the postdoctoral contract - Demonstrated proficiency and experience with ecosystem models, fish and fisheries models, eco-evolutionary models, coupling fish and hydrodynamic-BGC models - Programming and numerical skills - Excellent verbal and written communication skills

PRACTICAL INFORMATION

Work place: Université de Montpellier, UMR MARBEC, Place Eugène Bataillon, CC093, 34095 Montpellier, France Start date: The starting date of the contracts runs from February to September 2024. The duration of the contracts is up to 24 months. Salary and benefits: Gross salary is approximately 34 K euro /year, depending on professional experience. Employment contracts include 10 weeks of vacation per year, healthcare benefits (both state and private supplementary coverage), unemployment benefits, and pension benefits (both state and supplementary fund).

HOW TO APPLY

Applicants should send: - a curriculum vitae of no more than 3 pages, including names and email addresses of 2-3 references - a short letter (˜1 page) summarizing previous research and the motivations for joining the postdoctoral modelling program. - Letters of recommendation are welcome.

Review of applications will begin immediately and continue until the positions are filled, with a firm deadline of May 1st, 2024. Interviews of relevant applicants will start in December 2023, and final decisions may be made as early as January 2024. We encourage potential applicants to inquire informally by email whether positions are still open before submitting a full application.

Send all material to: Dr Yunne Shin (yunne-jai.shin@ird.fr) Dr Bruno Ernande (bruno.ernande@ifremer.fr) Dr Nicolas Barrier (nicolas.barrier@ird.fr)

Bruno ERNANDE (Ifremer) UMR MARBEC Université de Montpellier, 2 Place E. Bataillon - CC 093, 34095 Montpellier Cedex 5, France +33 (0)467144566 +33 (0)614102621 http://www.umr-marbec.fr/fr/ http://annuaire.ifremer.fr/cv/16861/ "Bruno ERNANDE, Ifremer Montpellier PDG-RBE-MARBE" <Bruno.Ernande@ifremer.fr>

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Naturalis Netherlands IdentificationFungalSpecies

About Naturalis:

Naturalis Biodiversity Center in Leiden is the Dutch national research institute for biodiversity and systematics. We host over 120 researchers including 15 academia embedded professors, 50 PhD students and 20 postdoctoral fellows. We closely collaborate with many Dutch universities, research institutes, industry, and government. With our collection of 43 million specimens, one of the world's largest natural history collections, and our state-of-the-art research facilities we offer the (inter)national research infrastructure for species identification and monitoring (for example in the ARISE and eDentity projects). We present the history of our planet, and the diversity of life on Earth, through permanent and temporary museum exhibitions, educational programmes, and online presence, with more than 400,000 visitors per year. All in all, a unique combination of science and culture in the Netherlands and elsewhere in the world!

About the position:

The postdoc position is part of a European Biodiversa+ funded project called FunDive - Monitoring and mapping fungal diversity for nature conservation. The consortium consists of partners from 16 European countries. The Dutch partner in this project is funded by NWO and the project will run from April 2024 to March 2027.

Fungi are increasingly regarded as networkers, recyclers and symbionts in nature, and as crucial active agents for sustainable society transformation and innovation. New methods have enabled much deeper insight into fungal biodiversity and distribution. Citizen science has emerged as a highly engaging approach to data collection involving a rich community of amateur mycologists. The development of molecular tools that allow us to explore environmental fungal DNA from different substrates has boosted our ability to explore fungal

communities. The overarching objective in FunDive is to bring both approaches together. However, they currently rely on different species concepts - the morphological species concept versus DNA barcode-based Species Hypotheses respectively - hindering comparisons of species lists across datasets. Hence, an important objective in FunDive is to provide a much improved platform for consistent naming of fungal taxa. Within this project, Naturalis will specifically focus on unlocking the potential of fungal type specimens, to unambiguously name fungal species.

We are seeking a postdoctoral researcher to contribute to FunDive and lead extensive efforts to sequence type specimens and thereby fix the use of scientific binomials and respective Species Hypotheses in UNITE - a database and sequence management environment providing identification of fungi based on rDNA ITS sequences and their communication via DOIs. Preliminary agreements show that we will have access to several thousands of types from major and smaller fungaria for sequencing and taxonomic interpretation. Developing sequencing protocols for specimens with degraded DNA will be an important achievement. On top of this, European species in need of epitypification need to be identified by compiling cases where the holotype, lectotype, or previously designated neotype, or all original material associated with a validly published name, cannot be identified for the purpose of the precise application of the name to a species. In collaboration with other partners of the FunDive project, efforts will be made to epitypify these species.

Requirements:

PhD qualification in mycology or a related discipline; Strong scientific track record;Technical/scientific expertise in molecular lab work, DNA extraction, amplification, sequencing techniques;Expertise in working with fungarium/herbarium material, taxonomy, nomenclature, typification and species delimitation in fungi;Experience with phylogenetic analyses, bioinformatics and species delimitation techniques;Experience with genomic techniques, ancient DNA and phylogenomics (not essential, but a plus);Teamplayer, ideally with experience in multidisciplinary consortium projects;Strong motivation and ability to think creatively;Excellent communication, collaboration and networking skills;Excellent level of written and oral English. Offer:

A contract (36 hours per week) for a period of one year, to be possibly extended with 22 months after successful evaluation and a monthly starting salary between euro 3,468.- and euro 4,506.- gross per month (depending on relevant experience). The starting date is the first of June at the latest. You also get an allowance for travel expenses, holiday allowance (8%) and year-end bonus (3.4%).The successful candidate will be employed by Naturalis in Leiden. We provide a vibrant and inspiring working environment, with ample support to our scientific staff by our Research Coordination Office and provide access to state-of-the-art laboratory facilities and the 43 million natural history objects in our collection. At Naturalis you will get the opportunity to develop your

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NorthCarolinaStateU Raleigh EvoDevo Genetics

Postdoctoral position: Developmental and Genomic Evolution using a Marine Annelid

The Zakas lab at NC State University studies the genetics of developmental evolution. We are interested in determining the genetic basis for developmental traits, and how genetics shape complex life- histories. We are hiring a NSF funded postdoc interested in researching how novel developmental traits evolve.

We use the marine annelid, *Streblospio **benedicti* as a model for understanding life-history evolution. *S. benedicti *is the only known species with a heritable developmental dimorphism, where females produce two distinct types of offspring with different developmental trajectories. Our projects focus on comparative embryology, genomics, and regulatory evolution of developmental modes. In this system we can integrate aspects of population genetics, genomics, and developmental biology to answer questions about the genetic basis of developmental evolution. More info about *Streblospio* and the lab's projects can be found here: https://zakaslab.weebly.com The Postdoc project involves generating and comparing genomes of related annelids with different developmental modes. This includes comparisons of multiple species and populations (PopGen analysis), comparative genomics, and regulatory analyses (RNAseq and ATACseq data). In addition to bioinformatics, there are opportunities for molecular and functional research.

Informal inquiries are welcome.

Qualifications The ideal candidate has a background in bioinformatics/genetics/EvoDevo or a related field and is interested in integrating molecular genetics and comparative genomics in an emerging system. Experience with genomic analyses is ideal, but not required. The postdoc will receive necessary training in bioinformatic analyses. NC State is a major research University situated in the Research Triangle Park with Duke, UNC Chapel Hill, and many biotech companies.

We support diversity and inclusion. Candidates from minoritized backgrounds are strongly encouraged to apply.

To Apply Please email: Dr. Zakas, czakas@ncsu.edu

An official application requires: 1) Cover letter detailing your interests, and a brief statement of research experience/goals 2) CV 3) Contact info for 3 references

Review of applications will begin Jan 30, 2024 and continue until filled. Start time is flexible.

Christina Zakas, Ph. D Assistant Professor Biological Sciences North Carolina State University

Christina Zakas <czakas@ncsu.edu>

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NorthernArizonaU EvolutionaryGenomics Reptiles

From Marc Tollis (marc.tollis@nau.edu)

I woud like to announce a 2-year NSF-funded postdoc position in evolutionary genomics available in my lab in Flagstaff, AZ. We will be sequencing, assembling, and annotating >100 lizard and snake genomes, compiling whole genome alignments for ~200 species, and doing phylogenomics and selection scans as well as integrating genomic and phenotypic data from extant and extinct taxa. The goal is to understand the regions of the genome that have co-evolved with regions of the squamate phenotype (craniofacial elements, body elongation, etc) over deep timescales. It's a primarily dry-lab position, looking for someone who can take the lead on bioinformatics and comparative genomics workflows right away. There's not a lot of projects like this, so I hope you see it as a great opportunity!

Salary is on the NIH scale (starts at $55k, up to $68k depending on years post-PhD), benefits-eligible (including health, dental, and vision insurance, optional 403b, 10 days vacation leave, tuition reduction for self and family). Annual travel to NY/NJ region and conferences are baked in. Flagstaff is certainly an amazing place to live, but remote work is possible as well - it's all computational.

I'm trying to get the application deadline extended because the position won't start until September 2024 and I would be willing to negotiate a start date up to December 2024. Trying to get a long runway to maximize applicants and get the word out for soon-to-graduate PhDs in genomics!

Please email marc.tollis@nau.edu for more information. Thanks!

Here is some text from the job ad and the link to the ad:

The Postdoctoral Scholar will be based in the Tollis Lab in The School of Informatics, Computing, and Cyber Systems, will be supervised by Dr. Marc Tollis, and work in collaboration with Dr. Frank Burbrink (American Museum of Natural History) and Dr. Tiago Simoes (Princeton University) on the NSF-funded project "The Genomic Basis of Evolutionary Innovations in the Squamate Tree of Life."

The Postdoc will be a key member of our team exploring the genomic foundations of phenotypic innovations throughout the evolutionary history of Squamata (lizards and snakes), resulting in the clearest understanding of genomic-phenotypic relationships across broad taxonomic scales in reptiles. The Postdoc will assist phylogenomic analysis, compile whole genome alignments for evolutionary analysis, and work with collaborators to develop models that co-estimate rates of evolution using both phenotypic and genomic data. Also, the Postdoc will develop computer code, genomic resources, and write manuscripts that focus on comparative genomics and macroevolutionary analyses.

Link to job posting: https://hr.peoplesoft.nau.edu/-psp/ph92prta/EMPLOYEE/HRMS/c/-HRS_HRAM.HRS_APP_SCHJOB.GBL?Page=-HRS_APP_JBPST&Action=U&FOCUS=-Applicant&SiteId=1&JobOpeningId=-607691&PostingSeq=1 Marc Tollis, Ph.D. Assistant Professor Northern Arizona University https://-tollislab.org/ Marc Tollis <Marc.Tollis@nau.edu>

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OkinawaInstSciTech Macroevolution

Okinawa Institute of Science and Technology Postdoctoral Scholar or Staff Scientist in Macroevolution and/or Paleontology

A postdoctoral scholar (PhD 5 years) or staff scientist position (PhD 5 years) is available in the Macroevolution Unit at OIST (groups.oist.jp/mmu). We seek a highly motivated and creative researcher with a background in macroevolution (e.g. phylogenetics, evolutionary processes, organismal biology, and/or paleontology) and a deep interest in reconstructing the evolution of vertebrate life and biodiversity dynamics (extinction, diversification, innovation), and a desire to develop their own projects. The researcher will pursue novel work involving data and methods such as phylogenetic comparative methods, trait analysis, and/or fossil record occurrences.

This position is open to both paleontologists and researchers working on living groups, models, and molecular data, with a preference for those interested in fishes or other aquatic life. Exact projects will be developed through discussions with PI Sallan based on the skills, interests, and ideas of the selected researcher.

Report To: Prof. Lauren Sallan, Macroevolution Unit.

Responsibilities:

Develop and lead innovative projects related to the interests of the Macroevolution Unit. Publish results in high-quality journals. Present at national and international conferences.

Qualifications:

(Required)

- PhD in Ecology and Evolutionary Biology, Paleontology, Organismal Biology or related field with dissertation focused on macroevolutionary or biodiversity questions. - Experience and interest in macroevolutionary phenomena (e.g. diversification dynamics, evolutionary rates, trait origins, global events). - Willingness to develop knowledge about areas and clades of interest to the unit if outside of past experience (e.g. fishes). - Willingness to learn new methods as needed. - Willingness to travel to museum collections as needed. - Willingness to collaborate with other relevant labs at OIST and outside. - Good spoken and written English skills, including for scientific terms and concepts. Japanese is not required but classes are provided to OIST employees and their families.

(Preferred)

- Familiarity with the evolution and ecology of fishes, as documented by prior work. - Proficiency in fossil work, phylogenetic comparative methods, and/or obtaining and processing molecular data as needed. - Track record of work demonstrating a broad interest in macroevolution.

Start Date: Negotiable from March 1, 2024 to mid-2025. Promising senior graduate students and postdocs with time remaining in their current positions are encouraged to apply.

Term & Working hours: Full-time. A postdoctoral position (PhD5 years) is initially for one year and can be renewed to 2 more years based on performance and mutual agreement. A staff scientist position (PhD5 years) is initially for one year and can be extended further based on performance and mutual agreement.

Working hours:

Discretionary working hours

Compensation & Benefits: Compensation in accordance with the OIST Employee Compensation Regulations

Benefits:

Relocation, housing and commuting allowances Annual paid leave and summer holidays Health insurance (Private School Mutual Aid http://www.shigakukyosai.jp/) Welfare pension insurance (kousei-nenkin) Worker's accident compensation insurance (roudousha-saigai-hoshouhoken)

Contact Address:

If you have any question, please contact: lauren.sallan@oist.jp

Application Due Date: Applications will continue to be screened until the position is filled.

Submission Documents: Cover letter including statement of research interests

CV including the publication list Contact information for 3 recommendation letters (will be contacted after first pass)

Apply At:

https://www.oist.jp/careers/postdoctoral-scholar-or-staff-scientist-macroevolution-unit Lauren Sallan <Lauren.Sallan@oist.jp>

Oslo Norway ComputationalNaturalSciences

Hi all,

The University of Oslo is hiring 18 three-year postdocs (18 more will be announced next year).

See here: https://www.jobbnorge.no/en/available-jobs/-job/255679/dstrain-msca-postdoctoral-fellowships-in-computational-and-natural-sciences-18-positions Applicants must include a research proposal within selected themes. My recommendation is that you look over the themes and contact the PIs directly. See here: https://www.uio.no/dscience/english/dstrain/-research-areas/biosciences/index.html Interesting topics within evolutionary biology may be (but see the website for a comprehensive list): Biodiversity genomics - PI: Kjetill S. Jakobsen Data Science and Biodiversity - PI: Bastiaan Star

Deadline 14th April 2024

Best, Josï¿½

jcerca.github.io

Google Scholar < https://scholar.google.pt/-citations?user=ZI1vWPEAAAAJ&hl=en > Evolutionary Biologist University of Oslo

Out on Rxiv (Jan 2024) ::: Consistent accumulation of transposable elements in species of the Hawaiian Tetragnatha spiny-leg adaptive radiation across the archipelago chronosequence < https://www.biorxiv.org/content/-10.1101/2024.01.03.574070v1 >

Recently published (Oct 2023) ::: Understanding natural selection and similarity: Convergent, parallel and repeated evolution < https://onlinelibrary.wiley.com/-doi/10.1111/mec.17132 >

Josï¿½ Cerca <jose.cerca@gmail.com>

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Oxford UK EvolInsectSymbiosis

A three-year postdoctoral researcher position is available in the Department of Biology, University of Oxford, to conduct research on insect-symbiont interactions, working primarily with Dr Ailsa McLean. Although there is a strong ecological component to the project, it could also be a good fit for someone from a more evolutionary background.

The aim of this project is to incorporate the hidden dimension of microbial symbionts into ecological networks. Initially, we will use insect-parasitoid communities, focusing on aphids and their well-described assemblage of bacterial symbiont associates.

The PDRA will conduct field sampling to gather insects, carry out molecular detection of symbionts and parasitoids, and perform parasitoid rearing experiments to compare with molecular detection rates. You will then build and analyse ecological networks for the insect communities sampled. You will therefore need to be comfortable in field, insect laboratory and molecular laboratory settings, although previous experience in all three is not required.

Candidates should hold (or shortly expect to gain) a PhD in a relevant biological field. Experience working with insects in a laboratory or field setting would be an advantage, as would experience in analysing ecological networks.

The advert and application link can be seen here: https://www.jobs.ac.uk/job/DFC374/postdoctoral-research-associate Deadline for applications is 12 noon on 5th February 2024. Informal enquiries can be addressed to Ailsa McLean via email: ailsa.mclean@biology.ox.ac.uk

Ailsa McLean <ailsa.mclean@biology.ox.ac.uk>

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Prague EvolGenomics VisionInDeepseaFishes

ERC-funded postdoctoral position on deep-sea fish vision genomics in Prague

Application deadline: anytime from now till April/May 2024 (the selection will start in March and will continue until the suitable candidate is found, so the earlier you apply the better)

Start date: negotiable (1st July 2024 - 1st January 2025)

Duration: 2 years with possibility for extension

Location: Department of Zoology, Charles University, Prague, Czech Republic, EU

Research group: http://www.fishevo.com/ We are searching for a motivated candidate with interest and experience in molecular and evolutionary genomic approaches to reveal the secrets of how fish see in the deep sea. The project focuses on evolution of the visual sensory system in fishes, including genomics, regulation of expression, and single-cell transcriptomics in the selected species with extreme sensory adaptations. The successful candidate will join the Fish Evolution research group of Zuzana Musilova at Charles University in Prague.

We offer:

- an international research group with the ERC funding located in an inspiring historical city

- a competitive salary way-exceeding the average for the Prague city

- possibility to participate at international conferences and our collaborations

We seek:

- a candidate with motivation and enthusiasm for biology, nature and science willing to do research on deep-sea fishes

- a candidate with experience in the fields of evolutionary genomics, transcriptomics, or evo-devo field and with bioinformatics (the candidate is expected to work independently on the genomic architecture and gene regulation including analysis of the single-cell RNA and ATAC-seq data; generally the candidate should be able to adapt the analytical pipelines in case (s)he has no previous experience with this type of data)

- a candidate with a PhD degree in biology or related fields (or to be finished before starting the position)

The project:

Deep-sea fish have evolved extreme adaptations to their environment. In several deep-sea fish lineages, a novel visual system with unknown mechanism has been discovered (https://www.science.org/doi/full/10.1126/-science.aav4632) and the current project funded by the ERC Consolidator grant focuses on species with multiple rhodopsins, something very unusual for vertebrates. The main goal of the postdoc project is to get more insight into the mechanism this visual system can work in selected (=most extreme) candidate deep-sea species. We will use single-cell RNA seq on photoreceptors (rods and cones). We will use the single-cell ATAC-seq to study rhodopsin regulation, and we will search the whole genome for the actual architecture of multiple rhodopsin gene copies. While the focus is mainly on molecular evolution, we generally aim to interpret cool stories out of our findings mainly in the context of the evolution, fishes, and their life. The candidate is expected to present his/her project at international conferences and will be authoring research publications. All nations applicable.

All questions and applications (CV + half-page motivation letter + contact details for two persons who can be asked for a reference) should be sent directly to Zuzana Musilova (zuzmus[AT]gmail.com or zuzana.musilova[AT] natur.cuni.cz)

THANK YOU FOR YOUR APPLICATION:-)

Zuzana Musilova, PhD. (zuzmus@gmail.com)

Department of Zoology Charles University Vinicna 7, CZ-128 44 Prague Czech Republic - Europe

zuzmus <zuzmus@gmail.com>

StockholmU InsectSpermDiversity

Postdoc in Sperm Evolutionary/Cell Biology at the Department of Zoology, Stockholm University

Closing date: February 15 2024

Postdoctoral scholarship (tax-free stipend, 100%) for a period of 2 years (start date as soon as possible, but slightly flexible for the right candidate). The Snook lab

at the University of Stockholm, Department of Zoology, is looking for an ambitious, problem solving postdoc, interested in the evolution of sperm - the most diverse cell type - spermatogenesis, fertilization, microscopy, and collaboration across different disciplines.

Project description The successful candidate will be part of an interdisciplinary research project, based at Stockholm University in the lab of Professor Rhonda Snook. The aim of the work is "The evolution of sperm cell shape and motion" in insects funded by the Human Frontiers Science Program with research partners at the University of Lincoln (UK) and Tulane University (USA). We will build on recent developments in transgenic techniques to label sperm, manufacture of custom microfluidic devices, computational biophysical models, and understanding of how coevolution between the female reproductive tract and sperm shape effect fertilization success, to establish a phylogenetic perspective of the evolution of sperm shape diversity.

The overall aim for the project in the Snook lab will involve: 1) analyses addressing evolutionary diversity in sperm shape in insects, 2) assessing how intraspecific variation in sperm length impacts sperm movement and function within the female reproductive tract using molecular biology techniques and advanced microscopy, including micro- CT, fluroescent and other microscopy approaches, and 3) testing the relationship between sperm length and sperm motility in the closed system of the female reproductive tract by using experimental analogues (e.g., microfluidic devices), combined with microscopy and biophysical modelling (the latter lead by consortium partners).

The appointee is expected to take full responsibility for the practical coordination of experiments, and take the leadership role in the collection and analysis of data generated, as well as writing of manuscripts. The appointee will participate in weekly Snook lab meetings and in monthly consortium meetings, and present results at national and international conferences. The appointee will interact with and mentor graduate and undergraduate students in the lab.

Qualification requirements Salary is provided as a tax-free scholarship stipend of 27500 SEK per month. Thus, only non- Swedish citizens with a doctoral degree or similar equivalent acquired in a country other than Sweden can apply. The applicant must have a PhD in evolutionary biology, zoology or cell biology, or a similar subject from a non-Swedish accredited college/university. The degree must have been completed at latest before the employment decision is made, but no more than three years before the closing date. An older degree may be acceptable under special circumstances. Special reasons refer to sick leave, parental leave, elected positions in trade unions, service in the total defense, or other similar circumstances as well as clinical attachment or service/assignments relevant to the subject area.

Assessment criteria and terms Overall, this is an innovative and collaborative opportunity combining diverse fields to answer outstanding questions about the evolution of the most diverse cell type. For work in the Snook lab, a strong candidate will have a background in evolutionary biology, zoology or cell biology. Ideally, the candidate will have experience in microscopy and a demonstrated track record of problem solving. Prior training in insect rearing desirable. There will be training opportunities for all aspects of the project, including but not limited to microCT scanning and microfluidic device development. There is scope to develop parallel projects for an organized candidate. Given the interdisciplinary and collaborative nature of the funding, applicants should be good communicators and happy to work in an international team, spread across three countries, as well as work independently to solve challenging technical problems. Working language is English.

The position is a full-time stipend for two years. As this is a stipend, the position is considered educational and the PI is the educational host. Start date as soon as possible.

Stockholm University and the Snook lab strives to be a workplace free from discrimination and with equal opportunities for all.

Contact Further information about the position can be obtained from Professor Rhonda Snook (host and project leader), email: rhonda.snook@zoologi.su.se

Application Apply for the position at rhonda.snook@zoologi.su.se Applications will be evaluated as they come in so apply as early as possible, up through the deadline. It is the responsibility of the

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TelAvivU AncientDNA

Post-Doctoral Researcher Needed for ancient DNA Project

About the Research Project: Examining Our History Through the Lens of Ancient Sedimentary DNA Embark on a groundbreaking exploration of our genetic past with our cutting-edge research project! Traditional approaches to ancient human DNA analysis have relied on genetic data derived from skeletal human remains, a limited and often scarce resource. Recognizing the need for a transformative shift, we are now increasingly relying on a more abundant, yet technically challenging, resource: utilizing sediments (dirt) as a rich source material for ancient human DNA.

In this exciting venture, our team is dedicated to advancing analytical approaches to DNA study. Through the development of innovative methods, we examine sediment samples to address and answer crucial evolutionary questions, offering a unique perspective that transcends the limitations of conventional techniques. Join us in reshaping the landscape of genetic research and uncovering the mysteries of our shared history.

Website:

https://www.templeton.org/grant/our-history-through-the-lens-of-ancient-sedimentary-dna-adding-color-to-the-picture Qualifications:

PhD in Mathematics, Statistics, Computer Sciences, Computational Biology, or a related field Experience with programming (C, Python, R, or another language)Experience with data analysis - required Experience with genetic data or ancient DNA data specifically - advantage Proven academic excellence Good scientific communication skills (publications, presentations)Proficiency in English, with the ability to effectively communicate technical information We are especially interested in candidates with a robust foundation in mathematics who aspire to contribute their expertise to the field of biology

Timeline and Contract:

This post-doctoral position is fully-funded for a minimum of two years, to begin immediately upon selection.

The successful candidate will be appointed under the auspices of the respective labs of Professor Muli Safra and Dr. Viviane Slon at Tel Aviv University in Tel Aviv, Israel.

Interested in Applying?

Please submit your CV, a letter of motivation, and the contact details for three references to safra.off@gmail.com and viviane@tauex.tau.ac.il

Officeof Safra <safra.off@gmail.com>

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TempleU Philadelphia TimetreeMethodsBiodiversity

Postdoctoral Position in Methods Development and Evolutionary Analysis of Species in the Timetree of Life

A postdoctoral position is available at Temple University in Philadelphia for conducting research on the tree of life and its timescale. This is part of the TimeTree project and database (https://www.timetree.org) of S. Blair Hedges (Center for Biodiversity, http://www.biodiversitycenter.org and http://www.hedgeslab.org) and Sudhir Kumar (iGEM, Institute for Genomics and Evolutionary Medicine, https://igem.temple.edu/ and https://www.kumarlab.net). The research involves a diversity of topics in molecular phylogenetics and systematics.

A PhD in a relevant field and fluency in English is required. We seek an individual with training in evolutionary biology and phylogenetics with skills in bioinformatics and computational biology. Programming knowledge is required. An ideal candidate will have a general knowledge of taxonomy and experience with building molecular phylogenies. They will have an opportunity to develop, investigate, and apply traditional and machine learning methods to build the tree of life. This research and development position is intimately associated with the TimeTree database and its development (https://www.timetree.org).

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

Interested persons should send an e-mail to postdoc@timetree.org, stating their interest in this position, and attach a curriculum vitae that also contains contact information for three references. Review of applications will begin on 15 February 2024 and continue until the position is filled. The anticipated start date, negotiable, is 1 July 2024. Temple University is an equal opportunity, equal access, affirmative action employer committed to achieving a diverse community (AA, EOE, m/f/d/v).

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“S. Blair Hedges” <sbh@temple.edu>

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UCalifornia Berkeley HumanEvolution

Post-doctoral position University of California, Berkeley Human Evolutionary Genetics.

Description: The Moorjani Lab (https://-moorjanilab.org/) at University of California, Berkeley uses computational and statistical methods to investigate questions in human evolutionary genetics, in particular on mutation rate, demographic inference and archaic ancestry. A central aim in the lab is to understand the impact of evolutionary history on genetic variation and to apply this knowledge to learn about human history and disease. To this end, we use genetic data from ancient specimens and present-day species to learn about: (1) when key events (such as introgression and adaptations) occurred in human history, (2) how different evolutionary processes such as mutation rate evolve across primates, and (3) how we can leverage these patterns to identify genetic variants related to human adaptation and disease. The research in the lab involves both development of new methods and large-scale genomic data analysis.

Responsibilities: A successful candidate will develop and apply computational approaches to large genomic datasets to characterize patterns of population history and evolution. The main responsibilities include conducting research, attending regular lab meetings and journal clubs, and preparing research results for publication and presentations at scientific meetings. Opportunities may also exist for mentoring graduate and undergraduate students.

Required qualifications: Ph.D. or equivalent in genetics, genomics, computational biology or related fields and demonstrated record of productivity and publications. Experience with programming (e.g. C/C++, Python/ Perl, R or other programming languages), genomic data analysis and methods development.

Please contact Priya with your CV and a brief overview of research questions you are interested in pursuing. Please also request three recommenders to send a letter of reference on your behalf. The position is open until filled with an anticipated start date in Spring 2020.

Salary: This is a multi-year postdoctoral position (initial appointment is for 12 months and renewable annually up to three more years). Salary is commensurate with qualifications and experience.

Contact: Priya Moorjani Assistant Professor Department of Molecular and Cell Biology Center for Computational Biology https://moorjanilab.org/ Email: moorjani@berkeley.edu

moorjani@berkeley.edu

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UCalifornia Berkeley PopGenomicsDevelopment Pupfish

Postdoctoral positions on the evolution, genomics, and development of trophic adaptation and specialized craniofacial morphology in Caribbean pupfishes

The Martin Fish Speciation Lab at the University of California, Berkeley in the Department of Integrative Biology and Museum of Vertebrate Zoology seeks two postdoctoral scholars for genomic, functional, and/or developmental studies of adaptive phenotypes in a radiation of trophic specialist pupfishes. Pupfishes present a rare opportunity to investigate the rare origins of adaptive radiation and the evolution of novel niches (e.g. scale-eating) localized to only two locations, San Salvador Island in the Bahamas and Laguna Chichancanab in Mexico, despite thousands of similar Caribbean environments. These positions include opportunities for fieldwork with collaborators in Mexico, but no previous field experience is necessary and participation is not required.

We are seeking postdoctoral applicants with specific expertise in either *population genomics, functional genetics (e.g. CRISPR-Cas9), or craniofacial development*.

Multi-year positions are available (initial 24-month appointment with the possibility of renewal for three more years). This research is funded by both NIH NIDCR R01 and NSF CAREER grants. Start date is flexible. Salary is based on the recently negotiated rates for the UC system, commensurate with experience, approximately $67,000 per year with annual raises.

Potential projects in the lab include:

1) Characterization of candidate adaptive variants within San Salvador Island or Chichancanab pupfishes using a combination of de novo genome assemblies, genome scans, GWAS, QTL mapping, gene annotation, transcriptomics, and analyses of selective sweeps and introgression.

2) Validation of candidate adaptive variants using HCR in situ hybridization, reporter assays, CRISPR-Cas9 knockouts, chemical inhibition, or other developmental approaches in the pupfish system.

3) Connecting specific adaptive variants to craniofacial morphology to scale-biting performance to fitness landscapes measured in the wild while tracing their evolutionary origins in space and time.

Required qualifications:

Ph.D. or equivalent degree in biology, evolution, genetics, development, bioinformatics, or related field. Publication of work based on dissertation.

Preferred qualifications:

Strong background in either population genomics or evolutionary developmental biology. The ideal candidate will have expertise in either 1) population genomics/bioinformatics analyses with an interest in speciation, introgression, and selective sweeps or 2) functional genetics and developmental biology with an interest in validation of candidate genes and variants through CRISPR-Cas9, HCR, tol2 transgenics, and other approaches. Strong programming experience is required for 1) but not 2).

The University of California is an Equal Opportunity/Affirmative

Action Employer. All qualified applicants will receive consideration

for employment without regard to race, color, religion, sexual

orientation, gender identity, national origin, disability,

age, or protected veteran status. BIPOC applicants under-represented and marginalized in the sciences are strongly encouraged to apply.

UC Berkeley has a world-class community of integrative biologists studying adaptive radiation spanning the Department of Integrative Biology, the Museum of Vertebrate Zoology, the Department of Environmental Science, Policy, and Management, the Department of Molecular and Cell Biology, the Center for Theoretical Evolutionary Genomics, the Center for Computational Biology, the Integrative Genomics Institute, and more. The city of Berkeley and the surrounding San Francisco Bay Area is known for its progressive values, vibrant social and cultural scene, and beautiful surrounding environment.

Interested candidates should submit a cover letter detailing their interest in the position and relevant experience along with their CV and contact information for three references to Chris Martin at chmartin@berkeley.edu

This position is open until filled, but applications will be reviewed starting two weeks after this posting. Please feel free to contact me at the below email address with any questions.

Christopher Martin

Associate Professor and Curator of Ichthyology

Integrative Biology and Museum of Vertebrate Zoology

University of California, Berkeley

chmartin@berkeley.edu

https://ib.berkeley.edu/labs/martin/ @fishspeciation.bsky.social

evoldir@evol.biology.mcmaster.ca

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UCalifornia Riverside SexChromosomeEvolution

Postdoctoral position in sex chromosome evolution The Campbell lab (https://www.campbelllab.net/) in the Department of Evolution, Ecology, and Organismal Biology at the University of California Riverside (https://eeob.ucr.edu/) is seeking a postdoctoral researcher to work on sex chromosome evolution in a non-model rodent system. The postdoc's primary focus will be on the production and analysis of multi-species, multi-tissue transcriptome datasets that will be used to test for signatures of sexual antagonism and other potential drivers of recent evolution on Y chromosomes. These data can also be used to explore related topics, including the interaction between sex chromosome genotype and gonadal identity, and the evolution of dosage compensation.

The postdoc will have the freedom to develop these or other projects along their particular lines of interest. The bulk of the work will be computational but there will also be opportunities for bench work and for fieldwork in California and the Pacific Northwest if desired.

Qualifications: A PhD or equivalent in evolutionary

biology, population genetics, genomics, or a related area is required at time of hire. The ideal candidate will be a creative thinker with expertise in a programming language (e.g. R, python) and experience working with large transcriptomic and/or genomic datasets.

Start date is flexible up to Summer 2024. Funding is available for two years. Minimum starting salary is $60,000 (0-11 months post-PhD) with 3.5% increase for all postdoctoral salaries projected for Fall 2024.

To apply, please send a letter of interest, CV, and contact information for three references to polly.campbell@ucr.edu.

Review of applications will begin January 23rd. Informal inquiries are also welcome.

The University of California is an Equal Opportunity/Affirmative Action Employerwith a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff. All qualified applicants will receive consideration for employment without regard to color, religion, sex, sexual orientation, gender identity, national origin, age, disability, protected veteran status, or any other characteristic protected by law.UCR is a world-class research university with an exceptionally diverse undergraduate studentbody. Its mission is explicitly linked to providing routes to educational success for underrepresented and first-generation college students.

Polly Campbell Associate Professor Department of Evolution, Ecology &Organismal Biology University of California, Riverside Riverside, CA 92521 Office: 3378 Spieth Hall https://www.campbelllab.net/ She/Her/Hers

Polly Campbell <polly.campbell@ucr.edu>

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UCL London ComputationalPhylogenetics

Research Fellow in computational phylogenomics in University College London Ref: B02-05522 Hours: Full Time Salary: Grade 7, 42,099-50,585 per annum including London Allowance Closing Date: 30-Jan-2024

Duties and Responsibilities

The post holder will join the team of Professor Ziheng Yang FRS and Dr Asif Tamuri in UCL to work in the areas of computational phylogenomics and molecular evolution. The successful candidate will become a member of a multidisciplinary research team at the interface of evolutionary genomics, bioinformatics, computer science, and computational statistics. They will implement HPC algorithms to greatly speed up phylogenetic likelihood calculations in the PAML program package (Yang2007 Mol Biol Evol 24:1586-1591) and to develop novel models and methods for phylogenetic analysis of genome-scale datasets. They are expected to be a competent C/C++ programmer with experience in scientific computing and a keen interest on using statistical and computational methods to address important questions in evolutionary genetics and genomics. Knowledge of statistical inference (maximum likelihood and Bayesian inference) or phylogenetics, though not essential, is a big advantage.

The post is an open-ended contract with a funding end date of 15 March 2027 in the first instance. The post is funded by the BBSRC for three years.

Starting date will be on 16 March 2014 or as soon as possible afterwards.

Salary will be commensurate with experience on UCL grade 7 (42,099-50,585 pa including London allowance).

Key Requirements

We seek a research scientist with expertise in C/C++ programming. We will also consider bioinformaticians and evolutionary biologists with strong computational skills who are experienced in modern phylogenetic software and are interested in phylogenetic analysis of genomic datasets.

A PhD (or working towards a PhD) in one of the following areas is essential: computational science (e.g., C/C++ programming for HPC), statistical inference, and phylogenomics and population genomics. Individuals with a biology PhD are invited to apply if they can demonstrate strong computational/statistical skills. Ability to work in a multi-disciplinary collaborative environment is essential, as is fluency with Linux. A proven track record of effective research will be required.

Please note: Appointment at Grade 7 is dependent upon having been awarded a PhD; if this is not the case, initial appointment will be at research assistant Grade 6B with payment at Grade 7 being backdated to the date of final submission of the PhD thesis (including corrections).

Further Details

A job description and person specification can be accessed at the link at the bottom of this message. Please ensure you read these carefully before applying for the

post.

If you have any queries about the role, please contact Professor Ziheng Yang FRS at z.yang@ucl.ac.uk or Dr Asif Tamuri Asif Tamuri at a.tamuri@ucl.ac.uk.

Please follow link below to find out about our commitment to Equality, Diversity and Inclusion, and to apply for the job https://-/www.ucl.ac.uk/work-at-ucl/search-ucl-jobs/-details?nPostingId=6127&nPostingTargetId=-19343&id=Q1KFK026203F3VBQBLO8M8M07&LG=-UK&languageSelect=UK&mask=ext Ziheng Yang <z.yang@ucl.ac.uk> Asif Tamuri <a.tamuri@ucl.ac.uk>

"Yang, Ziheng" <z.yang@ucl.ac.uk>

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UCyprus MSCA AvianEvolutionaryGenomics

Postdoctoral research opportunity in evolutionary genomics at the University of Cyprus

We are looking for applicants for a Marie SkÂ³odowska Curie opportunity offered by the University of Cyprus via its ONISILOS MSCA program. The ONISILOS program is funding 27 postdoctoral fellowships and there is an opportunity for one such fellowship to work with Alex Kirschel's group at the Department of Biological Sciences at the University of Cyprus (UCY) in collaboration with Sophia Hayes and Constantina Kapnissi in the Department of Chemistry at UCY, working on a project that integrates landscape genomics with carotenoid pigmentation in feathers and the distribution of dietary carotenoids across the landscape.

The project focus would ideally be on the tinkerbird study system from continental Africa, which we have been studying for 20 years. For more information on projects and research performed so far on this system, please visit www.tinkerbirds.com . Project: Genomic and environmental determinants of the distribution of carotenoid-based feather colour across the landscape

Summary:

Carotenoid pigments are sequestered by animals in their diet and may then be converted from dietary yellow carotenoids to red ketocarotenoids in individuals with red coloration. For an animal to display red colour, it must obtain carotenoids from the landscape and must have specific alleles at candidate genes involved in carotenoid conversion. Further, regions of the genome may be associated with habitat structure, and in turn, the distribution of carotenoids in dietary items across the landscape. Our team will investigate the biochemistry of carotenoid colour in bird feathers, relating it to variation in the distribution of feather colour across the landscape. This will be accomplished by use of instrumental methods of analysis that include Raman spectroscopy and High-Performance Liquid Chromatography that are located at Dr. Hayes' and Dr. Kapnissi's laboratories in the Department of Chemistry. Candidate genes involved in carotenoid conversion will be identified among phenotypes using comparative and functional genomics, and associations between the genome and the distribution of feather colour in the landscape will be assessed using landscape genomics approaches in the Kirschel lab in the Department of Biological Sciences.

We are looking for applicants ideally with expertise in genomics, with an interest in particular in landsape genomics, functional genomics, transcriptomics, epigenomics, metabarcoding and/or biochemical analyses such as Raman spectroscopy or HPLC.

More information on the application process:

ONISILOS fellowships are available to top Researchers from around the world and within the frame of specific intersectoral and interdisciplinary disciplines and topics that can be found here: https://bit.ly/3M6Z4rk Positions are for two years and the monthly salary includes the following allowances:

- euro 3080.94 Living allowance (Gross monthly salary)

- euro 291.55 Mobility allowance per month (Gross monthly salary)

- euro 194.36 Family allowance per month (Gross monthly salary)

How to apply Applications and Guide for Applicants: https://lnkd.in/eRZTihWK Deadline for applications: 25/01/2024

Location The position is based at the University of Cyprus, in Nicosia.

Informal enquiries can be sent by email to:

Associate Professor Alexander Kirschel Behavioural Ecology and Evolution Lab Department of Biological Sciences University of Cyprus kirschel@ucy.ac.cy

Alexander Kirschel <kirschel.alexander@ucy.ac.cy>

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UFreiburg TropicalTreePhenology

Postdoctoral Researcher (m/f/d)

https://uni-freiburg.de/universitaet/jobs/00003525/
The Department of Forest Genetics offers a position for a Postdoctoral Researcher (m/f/d)

* Apply until: 15.02.2024 * Start-date: At the earliest possible date. * Fulltime position * Kennziffer: 00003525

Description

The working group of Forest Genetics at the University of Freiburg is looking for a postdoctoral researcher to work on the phenology of tropical tree species and, in general, on the evolutionary ecology of trees.

The successful applicant will be involved in the DFG-funded Emmy Noether project on "Phenology of tropical tree species - environmental cues, molecular mechanisms, and consequences for plant-animal interactions". The project focuses on identifying climatic cues that trigger phenological transitions in four neotropical tree species. We collect phenological data with a camera system and link this information to high-resolution climatic data. Moreover, we study how pollination and the resulting gene flow are influenced by the timing and degree of synchrony within tree populations. Data collection in Southern Ecuador at the Estación Científica San Francisco and in a dry forest site at Reserva Ecológica Arenillas takes place since 2022 until the end of 2024. We are now looking for a postdoctoral researcher who will work with the two Ph.D. students in the field and lab, co-supervise BSc and MSc students, and carry out his/her own investigations in the framework of this project, specifically concerning plant-animal interactions. Also, we are currently establishing a Citizen Science project on the phenology of tropical species in Ecuador which should be coordinated together with our Ecuadorian partner institutions.

Further, the postdoctoral researcher will support the working group in research, teaching, and administrative tasks. The position comes with a teaching load of 4 semester hours (teaching language German or English).

Your profile

You have an MSc in biology, ecology, environmental science, or similar fields and completed a university degree (Ph.D.) with excellent results. Ideally, you have already gained experience in a postdoctoral position. You have prior experience with fieldwork in the neotropics. For the communication with local field workers, NGOs, and authorities fluency in Spanish is required. Ideally, you have prior experience with research in the fields of forest ecology, phenology, plant-animal interactions (e.g. network analysis), and population genetics. Prior experience with laboratory work is advantageous. You have good communication and team skills, and a meticulous way of working. Since part of the work will be the coordination of a citizen science project, you should have experience with science communication.

The ability to work in a team and under physically and mentally demanding conditions of field research in a tropical rainforest is crucial. Experience in tree climbing would be beneficial but is not necessary for an application.

Further, we expect good knowledge in data handling and statistical data analysis (preferable in R) as well as the capability to interpret the results and excellent writing skills which should be proven by own scientific publications. Previous teaching experience is beneficial.

What we offer

You will be integrated in our working group at the University of Freiburg. We work in various projects in forest genetics and genomics in temperate and tropical regions. You will have the chance to carry out fieldwork in the Neotropical mountain regions of Ecuador and to work with us on the data collected in the project. With the citizen science project, there is also a strong component of science communication.

The position offers the possibility of scientific qualification. The salary is the standard salary for postdoctoral positions in Germany including social security and health insurance.

Your application

Your application will consist of a motivation letter, a CV, academic transcripts (non-official copies are acceptable), and contact details of at least two academic references.

For further information, please contact Prof. Dr. Katrin Heer on the phone number +49 761 203-3647 <tel:0049761203-3647>—or E-Mail katrin.heer@forgen.uni-freiburg.de.

The position is limited to three years. The salary will be determined in accordance with E13 TV-L.

We are particularly pleased to receive applications from women for the position advertised here.

Application

Please send your application in English including sup-

porting documents mentioned above citing the reference number 00003525, by 15.02.2024 at the latest. Please send your application to the following address in written or electronic form:

Universität Freiburg Fakultät für Umwelt und Natürliche Ressourcen

— / —

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

UKansas EvolutionaryGenomics

The Mack lab (ww.katyamack.com) is recruiting a Postdoctoral Researcher. The Mack lab, within the Department of Ecology and Evolutionary Biology at the University of Kansas, is focused on questions related to adaptation, speciation, and gene regulatory evolution.

The postdoctoral researcher will lead research related to the role of gene regulatory variation in adaptation or speciation in house mice (Mus musculus). The candidate will use bulk and single cell sequencing techniques (RNA-seq and ATAC-seq) to study genetic and epigenetic factors involved in phenotypic evolution between populations/species.

Job Description

60% Conduct research; this will involve the execution of independent research and working collaboratively with team members.

30% Prepare and present updates on ongoing research, provide written reports on research progress, participate in group meetings and present seminars to the scientific community when asked.

10% Maintain an up-to-date lab notebook with detailed descriptions of daily research activities, including all protocols used and all results obtained.

Position Requirements

Work Location: Haworth Hall; Lawrence Campus, KS

Required Qualifications

Candidates will be evaluated on the candidate's research experience and communication skills, as evidenced by (i) a resume/CV and cover letter, (ii) prior research, (iii) references, and (iv) interview by videoconference.

1. Ph.D. in Biology, Genetics, Ecology/Evolution (or a related field), before the position's start date. 2. Strong research history in evolutionary genetics/genomics, population genetics, gene regulation, molecular biology, or related field(s). An understanding of or experience working with next-generation sequencing methods and analysis is strongly preferred. 3. Excellent communications skills as evidenced by application materials.

NOTE: To be appointed at the Postdoctoral Researcher title, it is necessary to have the PhD in hand. Appointments made without a diploma or certified transcript indicating an earned doctorate are conditional hires and are appointed on an acting basis not to exceed 6-months.

Preferred Qualifications

1. Substantial experience working as a member of a research team. 2. Experience with standard molecular biology methods (nucleic acid purification, PCR, etc.) 3. Evidence of skills in writing and publishing scientific manuscripts. 4. Evidence of skills in bioinformatic data analysis.

Contact Information to Applicants

katya.mack@ku.edu

Additional Candidate Instruction

Submit a CV and cover letter addressing qualifications listed in the Job Ad (https://sjobs.brassring.com/TGnewUI/Search/home/HomeWithPreLoad?PageType=JobDetails&partnerid=25752&siteid=5541&jobid=4872219#jobDetails=4872219_5541). Please also submit the names and contact information for two references in the cover letter. Only complete applications will be considered.

Please submit your application no later than February 11, 2024 to be considered for this position. This application review begins February 12, 2024. Visit https://sjobs.brassring.com/TGnewUI/Search/home/HomeWithPreLoad?PageType=JobDetails&partnerid=25752&siteid=5541&jobid=4872219#jobDetails=4872219_5541 to apply.

Katya Mack <katya.mack@gmail.com>

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UOregon PopulationGenomics

Postdoctoral positions in Population Genomics at University of Oregon

We are seeking qualified applicants for multiple NIH funded post-doctoral position to work in the joint lab group of Drs. Andrew Kern and Peter Ralph in the Institute of Ecology and Evolution at the University of Oregon. We are looking for colleagues who will work with us on projects to describe and make use of population genomic variation. Candidates could work on one of several projects, including: the role of geographic space in adaptation; development and application of deep learning methods for population genomic inference; ancestral recombination graph inference (using tree sequences); large-scale analysis of empirical population genomic datasets; and/or work on the stdpopsim project (https://github.com/popsim-consortium/). We are particularly interested in understanding how the forces of migration, selection, and demography shape patterns of genetic variation in whole-genome data from human, mosquito, and a variety of non-model organism populations.

The ideal candidate would hold a Ph.D. in population genetics, evolutionary biology, phylogenetics/phylogeography, computational biology, computer science, statistics, or a related field. Indeed, your exact field of research to date is less important than your interest in the scientific questions and motivation to learn. The ideal candidate would have experience programming in python or R, and have some experience with cluster computing environments. No prior experience with machine learning or deep learning is necessary this is a training experience. Your job is to bring your enthusiasm and a desire to learn.

More information about the Kern-Ralph co-lab can be found here: https://kr-colab.github.io/ - note in particular our expectations (https://kr-colab.github.io/-expectations).We are an extremely collaborative group, thus lab members work both on independent projects as well as collaborative projects. Each of the positions has funding for multiple years, so we hope to find candidates that will be with us for at least two years. More information about the Institute for Ecology and Evolution can be found here: https://ie2.uoregon.edu/ . The lab is located on the gorgeous University of Oregon campus. Eugene is a wonderful small city with an excellent quality of life that affords abundant outdoor opportunities in the nearby Cascade mountains and Oregon coast.

Review of applications will begin on February 1st and continue until the position is filled. Interested candidates should submit an electronic version of their CV along with a cover letter describing their qualifications and relevant experience to Andrew Kern (adkern@uoregon.edu) and Peter Ralph (plr@uoregon.edu). Persons with identities historically excluded from science and/or population genomics are particularly encouraged to apply. Inquiries welcome: please write if you have questions about the job or the qualifications.

Andrew Kern <adkern@uoregon.edu>

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UOtago FossilVariation

Postdoctoral Fellow (Zoology) - 2301977

DIVISION OF SCIENCES - TE ROHE A AHIKAROA

DEPARTMENT OF ZOOLOGY - TE TARI M£TAI KARAREHE

Who we are/Mô te tÃma

The Department of Zoology has a strong international reputation in whole-organism biology, with research strengths in areas including conservation biology, genetics, evolutionary parasitology, environmental physiology, wildlife management, neurobiology and statistical modeling, as well as in molecular, functional, population, community, freshwater and behavioural ecology.

We have well-established links to the Departments of Botany and Marine Science, to the cross-disciplinary Ecology, Genetics and Neuroscience Programmes, and to other centres at the University of Otago, providing a collaborative environment and resources for innovative interdisciplinary research.

Our staff have international reputations in their areas of expertise and make major contributions to answering fundamental questions in basic and applied research.

The role/Te mahi

As a Postdoctoral Fellow, you will work on a Marsden Fund project that aims to disentangle competing sources of morphological variation in the fossil record. Preliminary evidence suggests that variation within species is often mistaken for variation between species, per-

haps leading to taxonomic oversplitting and inflated estimates of biodiversity and speciation/extinction. The Postdoctoral Fellow will test this overarching hypothesis by applying a novel combination of geometric morphometrics and palaeo-genetics to contemporary and fossil specimens of geckos and skinks from New Zealand and New Caledonia. The outcomes of this research will have important implications for taxonomy, palaeontology, and conservation.

You will be located in the Department of Zoology at the University of Otago, which has a dedicated ancient DNA laboratory, a modern genetics laboratory, and access to high-throughput sequencing and 3D micro-CT scanners on campus and across Australasia. The department has a large, vibrant and diverse research environment with opportunities for collaboration across numerous scientific fields including ecology, evolutionary genetics, neurobiology, parasitology, physiology, and zoology.

As part of the Marsden Fund project, you will be part of an internationally collaborative team including a PhD and MSc student, and researchers and museums from New Zealand, Australia, New Caledonia, the UK, and the USA.

Your skills and experience/Kâ pÃ≫keka me kâ wheako

- PhD or equivalent doctorate in appropriate field. - Experience in the following: - Ancient DNA (DNA extraction, single and double stranded library preparation, quantitative PCR, hybridisation capture enrichment of mitogenomes and nuclear DNA) - Different high-throughput sequencing platforms - Bioinformatic analysis of high throughput sequencing data (enriched and shotgun), especially ancient DNA - Phylogenetic analysis (Bayesian [e.g. BEAST], maximum likelihood and maximum parsimony approaches, divergence dating) - Geometric morphometrics (3D micro-CT scanning, 2D and 3D photogrammetry, morphometric analysis in R).

Further details/PÃ≫roko

This position is full time (1FTE) fixed term (three years) and located in Dunedin.

The annual salary for a Postdoctoral Fellow position is $86,210 per annum.

Specific enquiries may be directed to Associate Professor Nic Rawlence (nic.rawlence@otago.ac.nz).

Application/ Tono

To submit your application, use the following link (https://otago.taleo.net/careersection/2/-jobdetail.ftl?job=2301977). Applications quoting reference number 2301977 will close on Thursday, 22 February 2024.

Associate Professor Nic Rawlence Director - Otago Palaeogenetics Laboratory Department of Zoology University of Otago 340 Great King Street Dunedin, New Zealand Ph: +64 (0)3 479 5385 Mobile: +64 (0)22 121 8537 E-mail: nic.rawlence@otago.ac.nz Twitter: @nic_rawlence_nz Sciblog: https://sciblogs.co.nz/lost-worlds/ Zoology webpage: http://www.otago.ac.nz/-zoology/index.html Zoology facebook page: https:/-/www.facebook.com/OtagoZoology/ Zoology twitter page: https://twitter.com/Zoology_Otago Nic Rawlence <nic.rawlence@otago.ac.nz>

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UPorto Portugal SocialAssociations

A post-doc position is available for 2 years to study the fitness benefits and costs of social associations in Sociable Weavers using long-term data - Deadline 31 January

Theory and studies in humans suggest that co-operators are preferred as social partners, and this preference is expected to bring fitness benefits, but few long-term studies have investigated the fitness benefits (or costs) associated with social network dynamics in wild animals. We are opening a post-doc position to investigate the association between social network associations and fitness. This position is part of an ERC funded project that is investigating the role of partner choice on the evolution of cooperation using as a study model the sociable weaver, a small bird from southern Africa. The post-doc will collaborate closely with a PhD student working on social networks and two other post-docs.

The post-doc will use social network analyses and existing long-term demographic data combined with micro-tracking data (collected in our system at feeding stations since 2017). The aim is to investigate whether social network attributes are associated with: 1) survival probability, 2) timing and probability of reproduction 3) physiological condition (based on existing telomere data), and 4) body mass (using a recently developed system to collect body mass in the field). These associations will be studied in a feeding context and during communal roosting.

The sociable weaver project is a long-term research programme that uses a population of individually marked sociable weavers, a colonial cooperative bird from south-

ern Africa, to investigate the costs and benefits of cooperation. Detailed monitoring of survival, reproduction and helping behaviour has been collected for over 400 individuals/year since 2010. Social network data is available for 4-5 colonies (ca 200 birds) from data collected at RFID feeding stations since 2017, and from roosting associations since 2021. An individual-based longitudinal sampling to study telomere dynamics has been conducted since 2014. A new automated system to collect body mass in the field is in use since 2023.

The post-doc work will be focused mostly on analysing existing long-term data, with some additional data being collected by an established field team. The post-doc is however expected to visit the field site and participate in the data collection as a way of becoming familiarised with the study model and field methods.

Advanced statistical knowledge and experience with social network analyses and large data sets is essential. The project requires a strong interest in sociality and cooperation.

The post-doc will join an international research group led by Rita Covas (CIBIO, Univ Porto, Portugal) and Claire Doutrelant (CNRS, Montpellier, France) and is expected to be based at CIBIO, but to visit C. Doutrelant in Montpellier and the field site in South Africa.

We are planning to conduct interviews around 8-9 February and the position would ideally begin in March or April 2024.

Pre-application enquiries are welcome (please email rita.covas@cibio.up.pt, Claire.doutrelant@cefe.cnrs.fr)

More information about the sociable weaver project can be obtained from our website: https://-sociableweaverproject.com

To apply go to: https://www.cibio.pt/biopolis-2024-05/

Please submit the following documents in a digital form, in PDF format:

i)Curriculum vitae (including the contacts of two referees)

ii)Motivational Letter

iii)Qualifications Certificate

iv)Any other relevant documentation

The application deadline is 31/01/2024

Rita Covas <rita.covas@gmail.com>

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UppsalaU EcologicalPlantGenomics

Position for one Postdoc in Ecological Plant Genomics at the Evolutionary Biology Centre, Uppsala University, Sweden

DEADLINE RAPIDLY APPROACHING!

We seek a Postdoc to join a project examining the genetic and ecological mechanisms behind adaptive population differentiation in plants, and the capacity for adaptive evolution in response to environmental change in natural populations of the plant model organism Arabidopsis thaliana. The research will be conducted within the framework of an international research collaboration. The overarching goals are to identify the genetic basis of local adaptation and variation in key traits involved in adaptation, to characterize the effects, and geographic distribution of genetic variants affecting fitness, and to examine whether adaptive evolution in local populations is constrained by trade-offs and pleiotropy, and/or the fixation of deleterious mutations.

Focus here will be on within-population sequence variation and its relation to quantitative genetic variation in fitness and putatively adaptive traits that has been documented under field conditions. Duties include bioinformatic analysis of whole genome sequence variation, statistical analysis, and the preparation of manuscripts for publication. There will be opportunities for participating in the establishment and monitoring of experiments in the field and under controlled conditions in the lab. Specific subprojects can be tailored to the skills and interests of the successful candidate.

We are looking for a candidate with a keen interest population genomics and bioinformatic analysis, quantitative genetics, and/or evolutionary ecology. Experience of bioinformatic analysis is required. We attach great importance to personal qualities such as ability to work and interact efficiently in a group. Proficiency in English is a requirement.

The successful postdoc candidate should have a PhD completed within 3 years of the application deadline (reasons such as prolonged periods of illness and parental leave can motivate a longer period). The postdoc position lasts for two years, with a possibility to an extension up to a maximum of 3 years.

Deadline for application is 29 January 2024.

Please find the announcement, with all information about how to apply, at:

https://www.jobb.uu.se/details/?positionId=-684222&languageId=1 For informal enquiries, please contact prof Jon Agren, jon.agren@ebc.uu.se, +46-70-643 6364.

Jon ï¿½gren Department of Ecology and Genetics Evolutionary Biology Centre Uppsala University Norbyvï¿½gen 18 D 756 32 Uppsala Sweden

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 Jon ï¿½gren <jon.agren@ebc.uu.se>

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UppsalaU EvolutionGeneRegulation

Postdoc:Postdoctoral position to investigate the evolution of novel gene regulatory interactions in bacteria at Uppsala University, Sweden

Department of Medical Biochemistry and Microbiology, Uppsala University, Uppsala, Sweden

Postdoctoral scholarship (tax-free stipend, 100%) for a period of 2 years (start date as soon as possible, but slightly flexible for the right candidate).

We are seeking to hire a postdoctoral researcher to investigate the molecular and genetic mechanisms underlying the origins and evolution of novel gene regulatory interactions in bacteria. This will be accomplished using genetic screens, molecular biology and biochemistry techniques, experimental evolution, and multi-omics approaches. The research is led by Dr. Arianne Babina, with Dr. Omar Warsi and Prof. Dan Andersson acting as co-supervisors.

Project description: The need to understand how bacterial gene regulatory interactions emerge and evolve to help bacteria quickly adapt to environmental changes has never been more crucial. Recent research has shown that gene regulatory network evolution is at the forefront of facilitating bacterial adaptation to novel ecological niches (e.g. antimicrobial resistance and host adaptation of pathogens). While a lot of progress has been made towards understanding the mechanisms that bacteria use to control gene expression, we still know very little about how new gene control mechanisms form de novo, from previously nonfunctional DNA sequences, and are further optimized. This project centers around isolating and functionally characterizing novel small protein and RNA regulators from randomly-generated DNA libraries. We will also compare how different environmental factors might affect the emergence and function of new gene regulatory interactions in bacterial genomes, and their evolution over time to help the bacteria adapt to new conditions. The project outcomes will help us predict and manage bacterial responses to environmental changes and aid in the design of biotechnological solutions to improve human health, agriculture, and industry.

Qualifications: We are looking for a postdoc that has (or is about to receive) a PhD in molecular biology, microbiology, biochemistry, or a related field. Experience with standard microbiology and molecular biology techniques, including molecular cloning, recombinant strain construction, and the development and/or execution of various bacterial growth and reporter assays, is strongly desired. Additional experience with experimental evolution and RNA/protein biochemistry techniques is advantageous, but not required. The successful candidate should demonstrate an ability to undertake the practical and theoretical aspects of the project, be able to work both independently and in collaboration with a multi-disciplinary team, be willing to supervise and train Master's students, and have a high proficiency in both written and spoken English.

Instructions for application: To apply, please send the following documents as a single pdf to Dr. Arianne Babina at arianne.babina@imbim.uu.se:

* A cover letter briefly describing your research interests and motivation for why you would be suitable for the position (maximum 2 pages) * Curriculum vitae including list of publications * Copy of proof of passed PhD exam (or information on an upcoming PhD defense) * Names, email addresses, and telephone numbers of three references

For further information and informal enquiries about the position, please contact Dr. Arianne Babina, arianne.babina@imbim.uu.se.

Dr.Arianne M. Babina, Ph.D. Postdoctoral Researcher Dan I. Andersson Group Department of Medical Biochemistry and Microbiology Uppsala University

När du har kontakt med oss pÃ¥ Uppsala univer-

sitet med e-post sÃ¥ innebär det att vi behandlar dina personuppgifter. För att läsa mer om hur vi gör det kan du läsa här: http://www.uu.se/om-uu/-dataskydd-personuppgifter/ E-mailing Uppsala University means that we will process your personal data. For more information on how this is performed, please read here: http://www.uu.se/en/about-uu/data-protection-policy Arianne Babina <arianne.babina@imbim.uu.se>

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USDA Maryland BeeGenomicsImmunity

A postdoctoral position is available as part of the multi-institutional Beenome100 effort to sequence and analyze 100+ bee species in the US. This project has produced 50+ reference genome assemblies to date, and is on track to pass 100 in 2024.

This position (https://www.zintellect.com/-Opportunity/Details/USDA-ARS-SCINet-2023-0488), will involve "Using AI to Address Host-Microbe Interactions in Pollinating Bee Species".

Location: Beltsville, Maryland but with telework potential

Closing Date: 2/16/2024

Research Project: This postdoctoral fellow will deploy artificial intelligence (AI) and statistical modeling techniques to investigate 1) gene family expansion and retraction for immune-related proteins across the bees, and 2) signatures of selection in immune-related proteins. They will also use AI approaches and microbial resources to assess parasite and pathogen pressures across a diversity of bee species and collaborate with the Beenome100 team to improve curated microbial databases across bees as a whole. This research will produce testable hypotheses for the impacts of climate, habitat, social structure, and nutrition on bee disease threats.

Primary Home: The Evans laboratory is a part of the USDA-ARS Bee Research Laboratory, Beltsville, MD, studying the impacts of disease in honey bees and other pollinators. As part of the Beenome100 effort to sequence, annotate, and utilize reference genomes for 100+ bee species, we are interested in immune-related genes across the bees, and developing insights into bee-microbe interactions (https://orcid.org/my-orcid?orcid=0000-0002-0036-4651).

Learning Objectives: The fellow will have opportunities to develop skills in insect immunity, genetics, molecular biology, bioinformatics, and metagenomics. The fellow will have opportunities to research alongside several collaborators, present their research at professional conferences, publish their findings, and participate in AI and other trainings hosted by USDA-ARS SCINet.

Mentor: The mentor for this opportunity is Jay Evans (jay.evans@usda.gov). If you have questions about the position, please contact the mentor.

Anticipated Appointment Start Date: 2024; start date is flexible and will depend on a variety of factors.

Appointment Length: The appointment will initially be for one year but may be renewed for a second year upon recommendation of the mentor and ARS.

Level of Participation: The appointment is full-time.

Participant Stipend: The participant will receive a monthly stipend commensurate with educational level and experience. The current stipend range for this opportunity is $85,000 - $95,000/year plus a supplement to offset a health insurance premium.

Citizenship Requirements: This opportunity is available to U.S. citizens, Lawful Permanent Residents (LPR), and foreign nationals. Non-U.S. citizen applicants should refer to the Guidelines for Non-U.S. Citizens Details < https://orise.orau.gov/usda-ars/applicants/-default.html > page of the program website for information about the valid immigration statuses that are acceptable for program participation.

"Evans, Jay - REE-ARS" <jay.evans@usda.gov>

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USouthFlorida EvolGenomics

POSTDOCTORAL RESEARCHER

University of South Florida

Department of Integrative Biology

We are seeking a postdoctoral researcher for August 1, 2024 (or sooner) to work on genomics, transcriptomics, and machine learning in Tasmanian devils and devil facial tumor disease (DFTD). The NSF-funded international collaboration builds on 20+ years of re-

search tracking the spread of this unique transmissible tumor across Tasmania and consequent endangerment of the iconic Tasmanian devil. A chromosome-level reference genome assembly is available for the devil, and population genomic data have already been collected for >3500 Tasmanian devil individuals. The successful applicant will have an unprecedented opportunity to analyze thousands of devil and tumor samples taken throughout epizootic progression to use GWAS, eQTL mapping, machine learning, and other approaches to understand the repeatability and predictability of the genotype-phenotype relationship in wild populations.

The position is centered in the lab of Dr. Mark Margres (https://www.margreslab.com) at the University of South Florida in close collaboration with Dr. Andrew Storfer (https://labs.wsu.edu/storfer/) at Washington State University. The University of South Florida offers genomic core facilities with state-of-the-art equipment, high-performance computational facilities, and staff support.

Review of applications will begin immediately 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 machine learning, infectious disease evolution, and/or cancer genomics. Start date is negotiable between now and August 1, 2024. Salary and benefits are competitive. Position is for 1 year, with continuation for an additional year pending satisfactory progress. To apply, please send in pdf format a CV, statement of interest, up to three representative reprints, and names, addresses and emails for three references via email to: Mark Margres (margres@usf.edu).

Mark J. Margres, Ph.D.

Assistant Professor Department of Integrative Biology University of South Florida Tampa campus

(813)-974-4576

www.margreslab.com Mark Margres <margres@usf.edu>

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UStAndrews ProbabilisticModelling

Dear All,

We have a research opportunity open at the University of St Andrews' Centre for Biological Diversity Biodiversity (CBD), School of Biology working in the research team of Carolin Kosiol.

We are seeking a motivated and creative postdoctoral researcher for a project "PoMoSelect: Disentangling modes of selection" funded by the BBSRC. Recent sequencing of genomes of closely related species and of many individuals from the same species enables the study of speciation and the inference of the history of populations. Standard phylogenetic methods reduce entire populations to single points in genotypic space by modelling evolution as a process in which a single gene mutates along the branches of a phylogeny. The Kosiol group has developed new approaches, called polymorphism-aware phylogenetic models (PoMo, Braichenko et al., bioRxiv 2024; Borges et al., Genetics 2019, Schrempf et al., JTB 2016, DeMaio et al., Syst Biol 2015) for species tree estimation. We envisage developing new theory and software to tackle the problem of balancing selection.

You will be part of a team developing new methods that investigate the role of balancing selection. This will involve theoretical work as well as software implementation and the analysis and interpretation of high-throughput molecular and genomics data.

This post will suit a candidate who can think flexibly and implement new software. Ideally, the candidate should have solid grasp of programming languages (eg. C, C++, Java, Python, R), but a desire to extend their capabilities into new areas and methods is highly desirable and there will be many opportunities to develop specific skills. An interest in phylogenetics and population genomics is a plus.

You will have the opportunity to publish first author papers, contribute as a co-author, and present your work internally and at international conferences. You must be able to independently manage your work, meet deadlines, and prepare internal reports and draft publications. You will have good communication skills. This is an outstanding opportunity to develop your research skills, ask exciting scientific questions and drive forward novel research at the cutting edge.

Applications should include:

(i) A cover letter expressing your interest in the position

(ii) a current CV

(iii) the names and contact details of three referees.

Deadline 23rd February 2024. The position is available for 1 year but might be extended to 18 months.

Full details are available at: https://www.vacancies.st-andrews.ac.uk/Vacancies/W/3160/0/417161/889/-research-fellow-in-bioinformatics-ar2630rh Informal enquiries can be directed to Dr Carolin Kosiol, ck202@st-andrews.ac.uk

Applications are particularly welcome from women, people from the Black, Asian and Minority Ethnic (BAME) community, and other protected characteristics who are under-represented in research posts at the University.

Equality, diversity and inclusion are at the heart of the St Andrews experience. We strive to create a fair and inclusive culture demonstrated through our commitment to diversity awards (Athena Swan, Carer Positive, LGBT Charter, Race Charters and Stonewall). We celebrate diversity by promoting profiles of BAME, LGBTIQ+ staff and supporting networks including the Staff BAME Network; Staff with Disabilities Network; Staff LGBTIQ+ Network; and the Staff Parents & Carers Network.

Dr Carolin Kosiol Reader in Bioinformatics Centre for Biological Diversity School of Biology University of St Andrews St Andrews, Fife KY16 9TF, Scotland/UK Email: ck202@st-andrews.ac.uk Web: https://-/biology.st-andrews.ac.uk/kosiol-lab/ Carolin Kosiol <ck202@st-andrews.ac.uk>

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UTennessee Knoxville PlantEvolPhysiology

Job Call: Postdoctoral Research Fellow in Seed-Free Plant Hydraulics

Description: The Suissa lab in the Department of Ecology and Evolutionary Biology at the University of Tennessee, Knoxville (UTK) is seeking a highly motivated and integrative postdoctoral research fellow to join the lab(https://www.botaneelab.com/). This is a full-time position focused on exploring seed-free plant hydraulics through space and time.The successful candidate will lead a research team exploring the structure, function, and evolution of vascular architecture in seed-free plants. The candidate will use physiological methods to determine drought tolerance and anatomical and histological methods to explore structure, development, and evolution across seed-freed vascular plants. Candidates are expected to work collaboratively, leading a team of students to answer their questions.The successful candidate will also have the opportunity to contribute to grant writing and outreach activities. There will be ample opportunities for mentoring and connecting with members of the EEB community.

Responsibilities and opportunities: - Conducting research on seed-free plant hydraulics. - Collecting and analyzing data on drought stress and anatomical traits. - Collecting and analyzing data on vascular anatomy and structure. - Writing manuscripts for publication in peer-reviewed journals. - Presenting research findings at national and international conferences. - Mentoring graduate and undergraduate students.

Qualifications: - PhD in evolutionary biology, organismic biology, plant ecophysiology,anatomy,botany,or a related field. - Strong background in plant physiology, hydraulics, and anatomy, with experience in microscopy and histology. - Experience with estimating vulnerability to drought induced embolism(preferred using the optical vulnerability method). - Preferred experience with a LI-COR 6400/6800. - Preferred experience with microCT. - Proficient in statistical analyses and data visualization,using R programming or a related language. - Excellent written and oral communication skills. - Ability to work independently or as part of a team.

Position details: - Salary:$50,000,with benefits - Start date: May 2024. - Funding is available for an initial 1 year with possibility of extension. - Location: In-person The University of Tennessee, Knoxville. Knoxville, TN. - Benefits:Healthcare,401k benefit plants - Opportunities for outreach and science communication

How to apply: To apply, please send your CV, a1-pagecover letter summarizing research interests and experiences, and the contact information of three references to Jacob Suissa(jsuissa@utk.edu). Any questions about the position should be directed to Jacob Suissa. Applications will be accepted until the position is filled.

All qualified applicants will receive equal consideration.The Suissa Lab values intellectual curiosity, continuous learning, and commitment to diversity, equity, inclusivity, and belonging.We particularly encourage applications from candidates who share these values and members of groups underrepresented in the sciences, and from students completing their first or second undergraduate years.

The University of Tennessee at Knoxville is the flagship university in the Tennessee state higher education system. Knoxville is a diverse medium-sized city in the Tennessee Valley with a relatively low cost of living. The area is rich in natural beauty (mountains, lakes, rivers). It is a great place to botanize and interact with nature.

Jacob S. Suissa (he/him/his)

Assistant Professor Department of Ecology and Evolutionary Biology University of Tennessee, Knoxville BotanEE Lab|Let's Botanize

"Suissa, Jacob" <jsuissa@utk.edu>

UTurku Strasbourg AvaianAdaptation

Please apply here : https://ats.talentadore.com/apply/-postdoctoral-researcher-biology/8Kjn3a Project Our ability to quantify and predict the magnitude of environmental global changes effects represents one of the major challenges of the 21st century. These changes are characterised by a gradual increase of ambient temperature through time, but also leading to an increased frequency of climate anomalies, such as heat waves. Habitat urbanisation, in particular, is a key driver of the increase of ambient temperature. The magnitude of such ambient temperature alterations also depends on latitudinal gradients. These temperature changes can drastically modify the phenology of species, their geographic distribution, food webs, interspecific interactions, but also life history trajectories, behaviour and physiology of individuals. Evidence suggests a central role of plasticity and local adaptation in species' responses to temperature changes. Yet, plasticity will be constrained by environmental gradients, and endotherms capacities to adapt to thermal stress remain poorly understood. In an urbanisation context along a latitudinal gradient, the aim of this project is to evaluate the harmful repercussions of pre and post-natal effects of thermal stress on the physiology of organisms, behaviour and on their life history trajectories (reproduction and survival). Using a multidisciplinary and integrative approach on Great tits, this project aims to assess effects of thermal stress on different molecular and physiological mechanisms (metabolic rates, mitochondrial function, markers of ageing, stress, Hsp expression) by manipulating temperature under common garden conditions, during development and growth period and follow various life history traits such as growth and survival patterns. This project will take place at the University of Turku, Finland, and the University of Strasbourg France. The postdoc researcher will be supervised by Dr Sophie Reichert, and closely collaborate with Dr Antoine Stier, Pr Sylvie Massemin and Dr Suvi Ruuskanen. Starting date: 03-04/2024

Job description Main activities will include: - Conducting experiments on birds in aviaries and in the wild. - Participating in field work in and around Strasbourg (France), Turku and Jyväskylä (Finland) - Lab work (ageing markers, stress markers analyses). - Analysing data and writing publications - Contributing to the research and social environment of the University of Turku and University of Strasbourg (DEPE-IPHC).

Apply between 20 December 2023 and 26 January 2024 16:00 (Europe/Helsinki)

Who we are looking for: The applicant must have an PhD in biology/ecology/ecophysiology or related subjects, a passion for studying wild animals in their natural environment, a strong work ethic. Experience with bird handling and/or fieldwork, bird physiology, lab work are highly desirable. This project would require knowledge of statistical analyses and previous experience with R software. A full driver's license is needed. Strong communication skills, with abilities to speak and write in English.

Desirable qualifications: We are looking for a candidate with a clear capacity to self-organize, and a communicative personality who works team-oriented. We value equality and diversity in our work community and encourage qualified applicants, regardless of background, to apply for our open positions.

Salary and trial period: The salary for the position is determined in accordance with the university salary system for research personnel. For postdoctoral researcher salary follows the levels 5 of teaching and research staff (3 150,54EUR/month). In addition, a personal work performance component will be paid. The personal work performance component is 6-50% of the task specific salary component. The salary will be commensurate with qualifications and experience based on the University salary system and will in the beginning of the employment be approximately 3500 euro /month. The position has a trial period of six months.

How to apply Please submit your application through our online recruitment system. The closing date for applications is Friday 26.1.2024 at 16.00 (EEST GMT+3 / at 13:00 UTC).

Applications must include a motivation letter in English describing your motivation, research interests and previous relevant experience with respect to the above listed requirements; Curriculum vitae including contacts of two referents; copies of PhD Diploma certificates. Interviews will be held early February 2024.

For further information about the position, please contact: Academy research fellow Sophie Reichert, reichert.sophie@gmail.com With questions about the application process, please contact: HR-specialist Kaisa Ketomäki, kaisa.ketomaki(at)utu.fi

Sophie Reichert - Ph.D.

Academy Research Fellow, Adjunct Professor - University of Turku, Finland

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UValencia EmergentViruses

Postdoc position available in the group of Rafael Sanjuï¿½n at the Institute of Integrative Systems Biology (I2SySbio), Universitat de Valencia.

Duration: 2.5 years - flexible starting date.

Funded by ERC Advanced Grant - EVADER (2022-2027)

We are interested in understanding emergent viruses from an experimental virology approach, focusing on viral entry. We aim to study virus-host interactions, including receptor use and the role of entry pathways and broad entry determinants.

Applicants should preferably have a background in molecular virology and/or computational biology.

The Sanjuï¿½n lab consists of 10-15 people including PIs, postdocs, PhD students and research assistants.

I2SysBio is a recently created institute that brings together experts in a wide variety of fields, including evolutionary biologists, virologists, computational biologists, theorists, geneticists and molecular biologists.

Contact: rafael.sanjuan@uv.es

Rafael Sanjuan <rafael.sanjuan@uv.es>

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UZurich HostMicrobiomeInteraction

Postdoctoral position: host-environment-microbiome interactions (80-100%)

We are seeking a highly motivated and talented postdoctoral researcher to join our group (http://-www.lupoldlab.net) at the University of Zurich, Switzerland to study the role of the microbiome in mediating environmental stress, such as heat stress or pollution, on the life history and reproductive performance of insects. We primarily work on different Drosophila species as model organisms. If your background is in evolutionary biology, insect ecology, or microbiology, and you have a proven track record of experimental work, we invite you to apply. The project offers flexibility in its direction, providing you with the opportunity to shape its course according to your primary interests and strengths.

Your responsibilities - Design and conduct experiments on insects (mostly Drosophila fruit flies) - Analyze data and write manuscripts for publication in high-quality peer- reviewed journals - Collaborate with other researchers in the laboratory and at other institutions - Provide teaching and/or mentoring support to undergraduate and graduate students

Your profile - Ph.D. in evolutionary biology, insect ecology, or microbiome research - Experience with behavioral experiments and microbiological or molecular techniques - Experience with data analysis and statistical software as well as scientific publication - Ability to work both independently and within a team - Excellent communication and writing skills in English (German an asset, but not required)

What we offer We offer varied and interesting work in an inspiring and socially relevant environment. Diversity and inclusion are important to us. Furthermore, we offer the following: - Opportunity to engage in a topical project of theoretical and applied value - Flexibility in exact project direction, allowing you to bring in your own ideas and strengths - An international, dynamic, collaborative and interdisciplinary research environment with opportunities to develop your academic career - Excellent working conditions and competitive salary at a leading research university - Employment for two years with potential for extension

Start of employment Employment start date to be mutually agreed, ideally March-May 2024. The selection starts on 5 February 2024. Please submit your CV, a cover/motivation letter, and the contact details of three referees in a single pdf. For more information and to submit your application, follow this link: https://jobs.uzh.ch/offene-stellen/postdoctoral-researcher/5f0d8640-2ad8-426f-b0a2-f86f2ce6b04d Stefan Lï¿½pold (stefan.luepold@ieu.uzh.ch) University of Zurich, Switzerland

Stefan Lï¿½pold <stefan.luepold@ieu.uzh.ch>

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Wageningen EvolutionFungalResistance

Postdoc: Investigating the risk and transmission of antifungal resistance in Aspergillus fumigatus

Locatie Wageningen, The Netherlands

Einddatum ma 12 februari 2024

Reageren Klik hier om te reageren

Your job

Are you interested in genetics and understanding the risk and transmission of a human fungal pathogen? Do you have, or want to develop, the organizational and project management skills to co-lead an internationally funded EU project? Are you excited about a project involving many different countries across the world? Then this could be a great opportunity for you!

In June 2024 the GAP-AFR project will start (funded by JPIAMR-DISTOMOS, application also available upon request). Aiming to bridge the gap between environment and patient by using a simple and cost-effective air sampling method we will investigate the global exposure risk of antifungal resistant Aspergillus fumigatus.

Depending on the preference for your career path as a postdoctoral researcher, you will focus largely on either project management by co-leading the project involving several international research groups, or you will focus on the analysis of the whole genomic sequencing data, taking the population genomic analysis to the next level to understand the transmission antifungal resistant A. fumigatus.

Depending on your scientific background and preferences, duties and responsibilities could include:

§project management including the coordination of work package meetings, annual consortium meetings and facilitating smooth collaboration with the steering committee.

§identify and contact stakeholders to actively facilitate knowledge dissemination throughout the project.

§actively contribute to capacity building of fungal surveillance and diagnostics in lower- and middle-income countries.

§analyze and utilize whole genome sequencing data and antifungal resistance surveillance data to gain a better understanding for the risk and transmission of this fungus.

§standardize and develop bioinformatics tools to perform global comparative surveillance of Aspergillus fumigatus from air samples. You will work here The research is embedded within our group the Laboratory of Genetics. We investigate causes and consequences of natural genetic variation within species. Since, genetic variation plays an essential role in ecological and evolutionary processes, we ask ecologically and evolutionarily motivated research questions. We use a wide array of model organisms, ranging from bacteria, fungi, plants and insects. You will be supervised by Dr. Eveline Snelders(Assistant Professor), project coordinator of the JPIAMR DISTOMOS “GAP-AFR” and part of the fungal genetics team.

Your qualities

We are seeking candidates who (depending on the career path) possess:

§a strong interest in population genomics and working with fungi;

§enjoy working in an international environment and a multidisciplinary team;

§strong organizational and communication skills and willingness to perform project management tasks;

§proficient writing and oral communication in English, Dutch language is not required; You also possess:

§PhD degree or in the process of finishing a PhD degree;

§basic bioinformatics skills or the motivation to acquire them;

§Optionally, willingness to travel to international partners involved in the project.

In our international working environment, the communication is in English and for this position it is about language level C1. You can see that there are plenty of challenges ahead of you. These challenges can also be

seen as development opportunities. So, if you do not yet have the track-record required in the vacancy but do have solid work experience we would also like to invite you to apply.

We offer you

Wageningen University &Research offers excellent terms of employment.A few highlights from our Collective Labour Agreement include:

§sabbatical leave, study leave, and partially paid parental leave;

§working hours that can be discussed and arranged so that they allow for the best possible work-life balance;

§the option to accrue additional compensation / holiday hours by working more, per week;

§there is a strong focus on vitality and you can make use of the sports facilities available on campus for a small fee;

§a fixed December bonus of 8.3%;

§excellent pension scheme.

In addition to these first-rate employee benefits, you will of course receive a good salary. Depending on your experience, we offer a competitive gross salary of between euro 3.226,- and euro 5.090,- for a full-time working week of 38 hours, in accordance with the Collective Labour Agreements for Dutch Universities (CAO-NU)(scale 10). The contract is for 0.8 FTE (32hrs/week) to 1.0 FTE (38hrs/week). Initially, we offer you a one-year contract, which will then be extended for another two years if there is mutual enthusiasm. Of course, we would be happy to discuss this with you if you have any questions.

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WorkshopsCourses

Berlin FlowerMorphologySystematics Jun3-14

Dear colleagues,

A reminder about an exciting workshop in Berlin this summer.

Have you ever wondered how to connect the morphology of flowering plants with the current understanding of plant relationships? This course does just that, in exploring the floral diversity and evolution of angiosperms in the context of the APG system.

This is an intensive two-week workshop providing a crit-

ical basis for diverse areas of research in botany Please distribute widely.

Best wishes,

Louis Ronse De Craene and Julien Bachelier

Berlin Summer Course in Flower Morphology and Systematics 3-14 June 2024

This is the second version of a highly successful two-week workshop held in 2023. The course is based at the Biological Institute of the Freie Universität Berlin and the Berlin Botanical Garden, which offer extensive facilities, including functional microscopy laboratories and a huge plant collection of more than 20,000 species. The course is set up as lecture-based, laboratory taught, and interactive visits of the living collections.

FORMAT: 2-week workshop, lectures and hands-on practical sessions.

INTENDED AUDIENCE: Final year undergraduate students, PhD students, post-doctoral and advanced researchers, professionals (but no formal restriction). A basic knowledge of botany is preferred but not essential. The course will run with a minimum of 8 and a maximum of 20 participants.

REGISTRATION FEE: euro 800 (euro 600 for Undergraduate and Master students) (Registration includes coffee breaks, daily lunches with snacks, and visits, but does not include travel and accommodation).

HOW TO APPLY AND SECURE A PLACE: Please contact Dr. Louis Ronse De Craene (l.ronsedecraene@gmail.com) to request an application form. To secure a place on the course you will be asked to pay a deposit of euro 100 - the rest to be paid by May 1st 2024.

COURSE INSTRUCTORS AND CONTACT: Dr. Louis Ronse De Craene, Research Associate Royal Botanic Garden Edinburgh (l.ronsedecraene@gmail.com) Prof. Julien Bachelier, Freie Universität Berlin (julien.bachelier@fu-berlin.de)

PROGRAMME:

Course Description and outline: This short course will introduce students to the structure and development of flowers, with a focus on floral diversity and evolution and the significance of flowers for systematics. Major plant families will be identified within the framework of the main lineages of seed plants to understand their evolution and diversification. Additionally, students will learn to analyse, describe, and study the structure of inflorescences, flowers, and fruits, and based on their observations, to identify the main evolutionary patterns underlying their tremendous morphological diversity, as well as their potential pollination and dispersal mechanisms.

Course objectives and learning outcomes: Through this course students will acquire the following skills: - a guide to identifying plants using morphological characters in the context of the molecular classification system. - a better understanding of the origin and evolution of floral structures, including their importance for classification, and of the main developmental patterns and evolutionary trends which underlie the tremendous diversity of reproductive structures. - an ability to observe and recognise key characters through the study of live floral material and the building up of floral diagrams.

Course outline: Daily activities will be in the following format: 9-12 Lecture, seminar and discussion of paper. 12-13 Lunch break 13-18 Plant collecting and observation.

Monday 3 June: Student presentations - introduction to morphology of vegetative structures and flowers, inflorescence and flower structure (floral diagrams and formulas). Tuesday 4 June: Overview of major groups of flowering plants; major characteristics of Flowers and special attributes (phyllotaxis, aestivation, merism, symmetry, floral tubes and hypanthia). Wednesday 5 June: Floral evolution from the ANITA grade to Mesangiosperms I Thursday 6 June: Floral evolution from the ANITA grade to Mesangiosperms II Friday 7 June: Monocot evolution: variations on a theme Saturday 8 June: Basal eudicots and rise of the core eudicots Sunday 9 June: Visit of the paleontological collections of the Museum of Natural Sciences Monday 10 June: Rosid diversification I Tuesday 11 June: Rosid diversification II Wednesday 12 June Rosid-Asterid transition Thursday 13 June: Asterid diversification I Friday 14 June: Asterid diversification II - Conclusions and wrap-up

Recommended Textbooks and Reading: Please note that this list is not exhaustive, and that these books will be available in class:

* Endress, P.K. 1996. Diversity and evolutionary biology of tropical flowers. Cambridge University Press, Cambridge. * Leins, P. & Erbar, C. 2010. Flower and fruit: morphology, ontogeny, phylogeny, function and ecology. Schweizerbart Science Publishers, Stuttgart.

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Berlin QuantifyingDemographicResilience May28-30

Dear all, Applications are now open for the Workshop "Quantfying demographic resilience of animal populations" that will be held at Lebniz-IZW Berlin.

Workshop info: https://www.leibniz-izw-akademie.com/seminare/demographic-resilience-workshop-2024 Content: Resilience is a central concept in ecological theory, and diverse approaches have been developed to quantify it on empirically-collected data. Quantifying demographic resilience, a recently formally defined concept, is at least as important because many management actions target the population level of organization.

In this course, after briefly learning about the historical development of stability concepts in the field of community ecology, participants will be introduced to the demographic resilience framework and the different metrics that are used to quantify it. We will first demonstrate the use of the currently prevalent time-invariant approach and next present the R package we have developed for applying the time-varying approach.

Our workshop aims at students and early-career scientists (PhDs, early-career post-docs) who work in the field of population ecology and are interested in quantifying population stability. The workshop will be organised in lecture sessions, practical walk-throughs and hands-on exercises in R. The workshop also includes group work, based on the data brought by participants or supplied by us.

Lecturers: Julie Louvrier, Viktoriia Radchuk, Adam Clark Leibniz Institute for Zoo and Wildlife Research & Institute of Biology, University of Graz, Graz, Austria

Requirements: The participants are expected to have background in population ecology (e.g. relevant Bachelor or Master level). The method for quantifying demographic resilience builds on matrix population models (MPM) and therefore previous background on MPM and experience working with them in R is required. Basic knowledge and experience working with R is a prerequisite. We strongly encourage participants to use RStudio.

Details and Registration: Number of participants: 15

When: 28th - 30th May 2024 Where: The course will be offered in person at the Leibniz Institute for Zoo and Wildlife Research (IZW) in Berlin (see address below).

Costs: The workshop is free of charge! We will provide coffee and snacks for the coffee breaks and lunch. Accommodation, travel costs and other food expenses must be covered by participants.

We offer funding support to cover travel (up to 300 EUR per person) and accommodation expenses (up to four nights) for a limited number of participants. To apply for this funding please send us a short (max. 1 page) motivation letter explaining why you require financial support.

To register:

* Please send an email to akademie@izw-berlin.de by March 18th 2024 with a brief explanation (max. 300 words) of why you would like to join.

* If you are also applying for funding support for travel and accommodation, please also attach your motivation letter (max. 1 page, see above) to the email.

You will be informed of your participation in the workshop in the week of the 25th of March, latest by the 29th of March. Please check your emails regularly within this period as we expect you to confirm your participation within the three working days after receiving the note of participation.

If you have any questions, do not hesitate to contact us.

Workshop venue Leibniz Institute for Zoo and Wildlife Research (IZW) Alfred-Kowalke-Str. 17 10315 Berlin Germany If you have any questions, do not hesitate to contact the team of the Leibniz-IZW-Academy:

Josepha Prï¿½gel & Layla Mpinou Leibniz-IZW-Academy & Conference organisation Tel.: +49 (0)30 5168 127 E-Mail: akademie@izw-berlin.de

"Peroline Louvrier, Julie Laurianne" <louvrier@izw-berlin.de>

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

ChapmanU ConceptualIssuesEvolution Jan18

Workshop on Conceptual issues in Evolutionary Biology around Elliott SoberChapman University, CaliforniaArgyros Forum 209 Thursday, Jan 18th, 2024, 1pm-6pm Please contact Thomas Pradeu <thomas.pradeu@u-bordeaux.fr> if you'd like to attend.

Schedule:

1:00-1:40, Elliott Sober (Wisconsin-Madison & Stanford), Gradualism, Mutation, and Natural Selection - Darwin, Fisher, Kimura, and Orr

1:40-2:20, Hayley Clatterbuck (Wisconsin-Madison), Evolvability as a Force

2:20-3:00, Thomas Pradeu (CNRS & Chapman), The complex evolutionary origins of today's immune systems

3:00-3:30, Coffee Break

3:30-4:10, Steven Frank (UC Irvine), The origin of novel traits and cancer

4:10-4:50, Cailin O'Connor (UC Irvine), Measuring Conventionality

4:50-5:30, Jack Horner (Chapman), Could the immune system be responsible for the evolution of the vertebrate skeleton?

5:30-6:00, General discussion

Abstracts:Hayley Clatterbuck (Wisconsin-Madison), Evolvability as a Force

We will consider whether evolvability ought to be seen as an evolutionary force. We argue that evolvability satisfies the key criteria for force-hood: it is a cause, it has magnitude and direction, it is distinct from other forces of evolution, and it unifies biological theorizing. However, the concept of evolvability is currently in flux. We conclude that if evolvability theorists want it to resemble canonical evolutionary forces, there are certain features a settled account of evolvability should emphasize. Steven Frank (UC Irvine), The origin of novel traits and cancer

The greatest puzzle in biology is the origin of new traits. The newest revolution in cancer is changing cell states. I link the origin of traits to the revolution in states.

New traits often solve an extreme environmental challenge. Resist treatment or die. Pierce a barrier or be forever contained. How do novel traits evolve to handle a newly demanding environmental challenge? Evolutionary theory has a special set of concepts for response to extreme challenge.

Throughout biology, novel traits often arise by combining parts of different gene expression programs. Those gene expression programs define alternative developmental states or alternative physiological states that cope with different environments.

In cancer progression and treatment resistance, new traits often arise by combining parts of different cell-state programs from development or from environmental responsiveness. It's the same thing that happens throughout biology. And because it's the same thing, we can look to the general insights from evolutionary theory for understanding the origin of phenotypic novelty in cancer. That theory provides new predictions about cancer progression and resistance.

Conversely, the insights from cancer advance our conceptual understanding of how evolution works. Where in fact do new traits come from? How does extreme environmental challenge influence the process?

This talk places cancer's cell-state changes within the broader evolutionary context. The first part outlines evolutionary theory for the origin of new traits. The second part illustrates the cell-state revolution in cancer research with example studies of drug resistance and carcinogenesis. The evolutionary concepts illuminate the recent observations on cell-state transitions in cancer, lighting the path for future studies of carcinogenesis and treatment resistance.

Jack Horner (Chapman), Could the immune system be responsible for the evolution of the vertebrate skeleton?

In 1993 an idea to retro engineer an avian dinosaur (bird) into a non-avian dinosaur-like animal was conceptualized. The idea and potential research sequence was published in 2009, and initiated in 2011. Atavistic genes (ancestral, dormant genes) were hypothesized as candidates for "reversal." Hypotheses became experiments, tested, with some falsified, and some not. Characteristics, not resultants of atavisms, were found in the vertebral column, unexpectedly discovered to be the outcome of a sterile inflammatory response of the immune system, co-opted during evolution. In birds just after hatching, a terminal sequence of 4 to 6 caudal vertebrae fuse together to form a structure called a pygostyle. The pygostyle basically functions as the birds tail rudder. Fusion of these vertebrae is initiated identical to the processes that underpin bone fracture repair incorporating necroptosis and heterophils (avian equivalent of neutrophils). Interestingly, all fusion-related structures

along the vertebral column in birds have been determined (current unpublished research) to have formed through similar mechanisms, suggesting that processes of the immune system may well have been responsible for bone fusion events in the vertebral sequence (e.g. pelvic girdles) of vertebrates in general. Such a statement substantiates the idea that the immune system is multifunctional as advanced by Pradeu (2019). Cailin O'Connor (UC Irvine), Measuring Conventionality

— / —

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

Edinburgh VariantAnalysis Feb5

Dear All

We have some spaces remaining on the online version of our popular Variant Anlaysis course this February. It's a great chance to learn from hugely experienced bioinformaticians working at Scotlands largest open-acess genomics facility.

When: 5 - 8 February 2024

Where: Online

Instructors: Frances Turner & Heleen De Weerd - Bioinformaticians, Edinburgh Genomics

Overview: This course aims to provide an introduction to the principles of short variant discovery (both germline and somatic) from short read data. We will look at a complete workflow, from data QC to functional interpretation of variant calls. The practical sessions will focus on running the GATK pipeline from the Broad institute.

https://gatk.broadinstitute.org/hc/en-us Cost: 361 - University of Edinburgh staff/students 380 - Other university or registered charity staff/students 397 - Industrial researchers

More info and registration here: https://genomics.ed.ac.uk/services/variant-analysis For more information on this course and others coming up this summer, please see our website: https://genomics.ed.ac.uk/services/training Kind Regards

Nathan Medd

Training Manager - Edinburgh Genomics

The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. Is e buidheann carthannais a th' ann an Oilthigh DhÃ¹n Ãideann, clàraichte an Alba, àireamh clàraidh SC005336.

Nathan Medd <nmedd@ed.ac.uk>

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Lausanne EPFL LandscapeGenomics Jun17-21

Dear all,

We are thrilled to announce that registrations are now open for our upcoming "in-person" course on "Landscape Genomics"

When: June 17-21, 2024 Where: EPFL, Lausanne, Switzerland

Immerse yourself in a transformative learning experience as we delve into the fundamental intricacies of landscape genomics and sharpen your skills with cutting-edge methods. From harnessing environmental data using GIS to dissecting genetic variation in R, this workshop is a comprehensive journey through the essentials. Explore statistical approaches for unraveling local adaptation mysteries and gain hands-on expertise with tools like Sambada and LFMM. Cap off the experience with valuable insights into result interpretation and experiment planning.

This workshop is tailor-made for those passionate individuals ready to apply landscape genomics in the realms of evolutionary biology and conservation studies.

Don't miss out on this extraordinary opportunity! Secure your spot and explore more details on our course website: (https://www.physalia-courses.org/courses-workshops/course17/)

For the full list of our courses and Workshops, please visit: (https://www.physalia-courses.org/-courses-workshops/course17/)

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846

"info@physalia-courses.org" <info@physalia-courses.org>

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Leipzig PlantPollinatorInteraction May23-30

Dear all,

We are happy to announce the iDiv Summer School 2024 "Plant-pollinator interactions in restored grasslands", 23 to 30 May 2024, in Leipzig, Germany! This iDiv Summer School is led by Tiffany Knight.

The 2024 iDiv summer school will provide students with hands-on experience in pollination ecology research. We will teach using a case study comparing restored to reference grasslands for the diversity and composition of plants and pollinators and the structure of plant-pollinator interaction networks.

This summer school is aimed at Bachelor students (in their final years) and/or MSc students, specializing in the fields of botany, ecology, entomology or other related fields from around the world. We are open to considering students from other career stages (e.g., PhD students, postdoctoral associates) if they are good motivation for wanting an introduction to this topic. Participants from regions often underrepresented in science can apply for funding.

For more information and the link for application, please visit www.idiv.de/summerschool. You also find a poster attached.

Deadline for applications is 18 February 2024.

Please forward this email to your students and within your networks - thank you!

Best wishes on behalf of the Summer School teachers and the yDiv team,

Beate

Beate Horn Programme assistant of graduate school and postdoctoral programme yDiv Programm-Assistentin der Graduiertenschule und des Postdoc-Programms yDiv German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig Phone: +49(0)341-97-33126 Room: A.00.19 Email: beate.horn@idiv.de Website: www.idiv.de/ydiv Postal address: German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig Puschstrasse 4 04103 Leipzig, Germany

iDiv is a research centre of the DFG - Deutsche Forschungsgemeinschaft

iDiv is a central facility of Leipzig University within the meaning of Section 98 (1) of the SächsHSG ("Sächsisches Hochschulgesetz"). It is run together with the Martin Luther University Halle-Wittenberg and the Friedrich Schiller University Jena, as well as in cooperation with the Helmholtz Centre for Environmental Research - UFZ. The following non-university research institutions are involved as cooperation partners: the Helmholtz Centre for Environmental Research (UFZ), the Max Planck Institute for Biogeochemistry (MPI BGC), the Max Planck Institute for Chemical Ecology (MPI CE), the Max Planck Institute for Evolutionary Anthropology (MPI EVA), the Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures, the Leibniz Institute of Plant Biochemistry (IPB), the Leibniz Institute of Plant Genetics and Crop Plant Research (IPK) and the Leibniz Institute Senckenberg Museum of Natural History Görlitz (SMNG).

USt-IdNr. DE 141510383

"Horn, Beate" <beate.horn@idiv.de>

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London NHMFreshwaterEcolTechniques May20-24

Dear all,

Applications are now open for the NERC funded short course "Taxonomic skills and field techniques for freshwater ecology and quality".

This is a five-day course held onsite at the Natural History Museum, London, UK.

Course dates: 20-24 May 2024 Application deadline: 1 March 2024 Course website: https://www.nhm.ac.uk/our-science/study/training/freshwater-ecology.html This five-day course combines a mixture of lectures, practicals and a one-day field excursion to the New Forest to introduce course delegates to the principles and applications of field technique skills, sample collection, microscopy and taxonomic identification of freshwater species relevant to water ecology and quality.

This course has been running for five years and has a capacity for 15 participants. It is suitable for PhD

students, postdoctoral researchers, early career biology and environmental science researchers and individuals who work in the environment and ecology sectors. By working closely with Museum scientists, participants will gain expertise to meet the needs and challenges of their current and future careers.

Further information, together with links to the application form can be found on the course website:

https://www.nhm.ac.uk/our-science/study/training/-freshwater-ecology.html Dr Nick Crumpton

Short Course Programme Coordinator The Natural History Museum Cromwell Road, London SW7 5BD UK nick.crumpton@nhm.ac.uk

Nick Crumpton <nick.crumpton@nhm.ac.uk>

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MNHN Paris IntegrativeTaxonomy Jun10-14

The course "Integrative taxonomy in the "big data" era" will be from the 10th to the 14th of June, 2024, at the MNHN of Paris, France.

The course is in English. To register, please fill the form on the website of the course (https://sites.google.com/-site/coursbarcode/home).

If you have any question, please contact: Nicolas Puillandre (puillandre@mnhn.fr) Sarah Samadi (sarah@mnhn.fr)

Nicolas PUILLANDRE <nicolas.puillandre@mnhn.fr>

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Naples EMBOPopulationGenomics Jun10-16

Registration is now open for the upcoming EMBO Practical Course "Population Genomics: background and tools" to be held in Castellammare di Stabia, Naples, Italy, 10-16 June 2024!

IMPORTANT DATES for this Course:

Deadline for applications: 16/02/2024

Latest notification of acceptance: 01/03/2024

Course dates: 10-16/06/2024

Registration fee waivers and child care grants available!

Full details, including the course programme, invited speakers and the application form: https:/-/meetings.embo.org/event/24-pop-genomics In this EMBO Practical Course, participants will learn fundamental concepts and advanced approaches to reconstruct the demographic history of populations and infer natural selection, using both classic and machine learning-based techniques. Participants will also learn the essential and advanced programming skills required to run the analyses related to the concept presented, with a special focus on machine learning. Keynote lectures focused on major achievements and future perspectives of population genomics will complement the training. Lectures and practicals are delivered by experienced outstanding and inspiring speakers. We expect participants to become fully confident in running analyses on their own after attending the course.

This course aims at evolutionary biologists who already have basic bioinformatics skills. Good knowledge of R is a pre-requisite and knowledge of Python is a plus. Ph.D. students and Postdoc researchers will benefit the most out of this course, but applications from all candidates will be evaluated in their context.

Chiara Batini, University of Leicester, UK Vincenza Colonna, Consiglio Nazionale delle Ricerche, IT Andrea Manica, University of Cambridge, UK

"Batini, Chiara (Dr.)" <cb334@leicester.ac.uk>

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Online BayesianPhylogeneticInference Mar11-22

Dear colleagues,

We are happy to announce the second edition of the course “Bayesian phylogenetic inference with BEAST2”.

Online live sessions on the 11th, 13th, 15th, 18th, 20th and 22nd of March, from 15:00 to 18:30 (Madrid time zone)

Instructors: Dr. Joï¿½lle Barido-Sottani [1] (Ecole Normale Supï¿½rieure de Paris, France) and Dr. Bethany Allen [2] (ETH Zurich, Switzerland)

Course Overview:

Bayesian phylogenetic inference is a powerful tool for reconstructing phylogenies while accounting for complex evolutionary dynamics. It allows prior knowledge to be integrated into the inference and also provides a detailed picture of the uncertainty present in the dataset. However, the number and complexity of the available models and options can be daunting for users, and can make it difficult to apply inference tools effectively in practice.

In this workshop, participants will learn the theoretical concepts underlying the different models involved in Bayesian phylogenetic inference, and get hands-on experience using these models in BEAST2. Particular attention will be given to more complex tree models, such as the fossilized birth-death model used to integrate past information into phylogenies, as well as rate-heterogeneous models which allow for variations in evolutionary dynamics across clades. Finally, the course will give practical information on designing and troubleshooting analyses in BEAST2.

Registration and more information: https://-www.transmittingscience.com/courses/evolution/-bayesian-phylogenetic-inference-with-beast2/ Best wishes

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:

[1] https://www.transmittingscience.com/-instructors/joelle-barido-sottani/ [2] https:/-/www.transmittingscience.com/instructors/-bethany-allen/ Soledad De Esteban-Trivigno <soledad.esteban@transmittingscience.com>

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Online Bioinformatics Feb26-Mar1

Dear all,

We are excited to announce the last few remaining seats for our upcoming Winter School in Bioinformatics,

focusing on "Understanding and Working with Next Generation Sequencing Data." This online course is scheduled from February 26 to March 1, 2024.

Course website: (https://www.physalia-courses.org/-courses-workshops/course68/)

This course aims to introduce participants to the field of Next Generation Sequencing biology, covering concepts and practical aspects of data handling. Topics include quality assessment of sequencing runs, assembling and annotating small genomes, RNAseq, differential gene expression, and phylogenomics with NGS data, using both short and long-reads data. Starting with a dedicated day on basic and advanced Linux concepts for data processing on Amazon Cloud (AWS), the course progressively introduces analysis steps in genomics, transcriptomics, and phylogenetic/phylogenomic domains.

For the full list of our courses and workshops, please have a look at: (https://www.physalia-courses.org/-courses-workshops/course68/)

Best regards, Carlo

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Online ConservationGeneticsEquity Mar27-29

Please consider joining us on March 27th, 28th and 29th for a FREE online workshop on the topic of equity in the quickly changing field of conservation genetics.

The workshop will be organized into two-hour sessions each day, focusing on a central topic within the theme:

1. technical barriers to conservation genetic research in underserved regions 2. the influence of international and national biodiversity policy and scientific structure on conservation genetic research 3. communicating and collaborating across bureaucratic and cultural barriers

We will begin each session with a presentation from an expert in each topic, and then break into small groups for discussion and brainstorming of solutions to overcome identified barriers to equity within the topic.

For more information and to register, please visit www.molecular-ecology.org or contact the organizer, Dr. Ashley Rohde, directly at arohde@nmsu.edu.

Thank you!

Sincerely,

Ashley Rohde

Ashley Rohde <arohde@nmsu.edu>

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Online EvolutionaryTimeSeries Feb6-8

ONLINE COURSE - Introduction to Time Series Analysis using R and Rstudio (ITSA02)

https://www.prstats.org/course/introduction-to-time-series-analysis-using-r-and-rstudio-itsa02/ Please feel free to share!

6th - 8th February2024

COURSE DETAILS - In this three-day course, we provide a comprehensive practical and theoretical introduction to time series analysis and forecasting methods using R. Forecasting tools are useful in many areas, such as finance,meteorology, ecology, public policy, and health. We start by introducing the concepts of time series and stationarity, which will help us when studying ARIMA-type models. We will also cover autocorrelation functions and series decomposition methods. Then, we will introduce benchmark forecasting methods, namely the naïve (or random walk) method, mean,drift, and seasonal naïve methods. After that, we will present different exponential smoothing methods (simple, Holt's linear method, and Holt-Winters seasonal method). Finally, we will cover autoregressive integrated moving-average (or ARIMA) models, with and without seasonality. If time allows, we will introduce regression with ARIMA errors.

Please emailoliverhooker@prstatistics.comwith any questions.

Oliver Hooker PhD. PR stats

Oliver Hooker <oliverhooker@prstatistics.com>

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Online GenomeAnnotation May13-17

Dear all,

We are excited to announce our upcoming online course, "Introduction to Genome Annotation" scheduled for May 13-17, 2024.

Course website: (https://www.physalia-courses.org/-courses-workshops/genome-annotation/)

In this course, we will delve into the essential processes and strategies required to start the annotation of your target genome addressing challenges posed by genome characteristics and specificities. The course will start with an overview of the samples' quality needed to make the best out of the downstream process and then the state-of-the-art sequencing technologies used for genome annotation, discussing pros and cons of each platform. Then, we will go through the basic strategies for genome annotation, which are prediction, ab initio and de novo transcriptome assembly, mainly for processing short read data. This will include learning about different approaches for annotating protein-coding genes in eukaryotic species via projection and evidence guided gene prediction. Discuss the challenges of annotation in different contexts. We will build gene models, explore the use of combiners for integrating alternative gene predictions and assess the accuracy of different annotation tools, assess the output quality and visualise it.

For the full list of our courses and workshops, please visit: (https://www.physalia-courses.org/courses-workshops/-genome-annotation/)

Best regards, Carlo

Carlo Pecoraro, Ph.D

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Online GenomeAssembly Jan8-11

The Computational Biology Core at the University of Connecticut is hosting virtual bioinformatic workshops this month! We still have space available in our genome assembly workshop for next week (virtual but live instruction - Jan 8-11). The workshop will go through multiple workflows with real data, demonstrating assembly with Flye, Canu, Hifiasm, and MaSuRCA. We will go through taking raw reads all the way to a scaffolded assembly. Learn more & register here: bioinformatics.uconn.edu/cbc-workshops/

WHERE: Virtual (zoom)

WHEN: 9:00 AM - 12:00 PM

COST: $400 (UConn affiliates) $500 (External participants)

Registration is first come first serve

Questions? E-mail cbcsupport@helpspotmail.com

"Nahom, Mia" <mia.nahom@uconn.edu>

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Online GenomeAssemblyNanopore Mar4-8

Dear all, there are only a few last seats available for our upcoming online course, "Genome Assembly Using Oxford Nanopore Sequencing," taking place from 4-8 March 2024.

Course website: https://www.physalia-courses.org/-courses-workshops/course59/ Our course will cover the entire process - from basecalling through to genome assembly, polishing, and quality control, using Oxford Nanopore Technologies sequencing data. Tahe sessions will include both theoretical background and practical application with model viral and bacterial datasets.

Limited Seats: To ensure a personalized learning experience, we have limited seats available. Secure your spot now for a comprehensive journey into the world of genome assembly using long-reads.

Learning Outcomes: - Understand the steps involved in genome assembly using long-read data. - Gain practical experience in choosing and using optimal tools for various dataset types. - Explore applications in microbiome, bacterial, viral, and mammalian genomics.

For the full list of our courses and Workshops, please visit: https://www.physalia-courses.org/courses-workshops/ Best regards, Carlo

Carlo Pecoraro, Ph.D

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Online GenomicPrediction Jan29-Feb2

Dear all,

Happy New Year!

We have the last 4 seats available for the Genomic Prediction course!

Dates: online , 29 January-2 February 2024

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 MachineLearningInR Feb19-23

Dear all,

there are still a few seats available for our course "Machine Learning - a hands-on introduction in R".

Dates: February 19-23, 2024 Format: Online Course website: (https://www.physalia-courses.org/courses-workshops/course43/)

This course is perfect for those with zero or basic machine learning knowledge. If you're familiar with the R programming language, you're ready to dive in!

Our attendees will gain hands-on experience in using multivariate methods and machine learning for 'omics data analysis.

For the full list of our courses and workshops, please visit: (https://www.physalia-courses.org/courses-workshops/-course43/)

Best regards, Carlo

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Online MicrobialMetabarcoding Feb5-9

Dear all,

We are excited to announce that there are only three seats left for the upcoming edition of our online course, "METABARCODING IN MICROBIAL ECOLOGY" scheduled to take place from February 5th to February 9th, 2024.

Course website: (https://www.physalia-courses.org/-courses-workshops/course30/)

Embark on an immersive journey into the world of metabarcoding techniques in microbial ecology. This comprehensive course covers the bioinformatic processing of next-generation sequencing data and essential approaches in multivariate statistics. Through a combination of theoretical lectures and hands-on exercises, you'll master the computational intricacies of a metabarcoding study, from the initial processing of raw sequencing reads to final statistical evaluations.

Upon completing the course, you will achieve the following objectives: - Grasp the concepts, potential, and limitations of microbial metabarcoding techniques. - Learn how to process raw sequencing reads to derive meaningful insights. - Gain experience in statistically evaluating and visualizing your data. - Acquire the ability to make informed decisions on best practices for your own data.

For the full list of our courses and workshops, please visit: (https://www.physalia-courses.org/courses-workshops/)

Best regards, Carlo

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Online SexChromosomeEvolution Feb5-9

Dear all,

we have the last 3 seats available for the course on " Sex Chromosome Evolution" in February (5th-9th).

Course website: (https://www.physalia-courses.org/-courses-workshops/sexchr/)

This course is designed to provide a comprehensive understanding of how genomic and transcriptomic data can be used to detect homomorphic/heteromorphic sex chromosomes and explore the causes and consequences of sex chromosome differentiation.

Participants will gain the skills to conduct computational analysis for detecting sex chromosomes, explore early stages of sex chromosome differentiation, understand recombination suppression patterns, analyze sex chromosome gene expression differentiation, study genome divergence, investigate dosage compensation, and interpret findings in the context of evolution.

For the full list of our courses and workshops, please visit: (https://www.physalia-courses.org/courses-workshops/)

Best regards, Carlo

Carlo Pecoraro, Ph.D

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UBarcelona PhylogenomicsPopulaitonGenomics Jul1-12

Dear all,

We have now opened the pre-admission phase to our postgraduate course "Phylogenomics and Population

Genomics: Inference and Applications" which will be held in Barcelona (1-12 July 2024).

Pre-enrollment deadline: February 5, 2024

Course website: https://www.ub.edu/certfem/-ppgcourse Overview:

The course aims to provide a comprehensive and rigorous training on the use of phylogenetic and population genetics methods to infer evolutionary history and diversification mechanisms, at the inter-species and intra-species level, using high-throughput sequencing data. It covers the most popular approaches used in phylogenomic inference, molecular dating, species delimitation, and population genomics to infer demographic history and to study molecular adaptation. The course places special emphasis on developing practical experience in state-of-the-art software through case studies grounded in current and future applications of phylogenomics and population genomics.

For more information about the program, please visit our website: https://www.ub.edu/certfem/ppgcourse/-programme TARGET AUDIENCE:

The course is addressed to graduate and postgraduate researchers interested in learning how to handle HTS data to infer population history and phylogenetic relationships, estimate divergence times, or characterize adaptive processes, or in acquiring experience in many other applications of tree-based evolutionary methods.

STRUCTURE

Two weeks course with a mix of lecture and in-class exercises, seminars and discussion sessions.

https://www.ub.edu/certfem/ppgcourse/schedule Should you have any questions, please feel free to contact us: certfem@ub.edu

All the best, Course directors

"Centre especial de recerca en Taxonomia (CERTFEM)" <certfem@ub.edu>

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WoodsHoleMA MolecularEvolution May24-Jun3

The 2024 Workshop on Molecular Evolution at the Marine Biological Lab in Woods Hole, MA will be held May 24 to June 3, 2024.

Founded in 1988, the Workshop on Molecular Evolution is the longest-running workshop of its kind. The Workshop is the premier program for integrating the methods, theory, and applications of molecular phylogenetics, statistical genetics, molecular evolution, and related disciplines. Students work closely with internationally recognized scientists, receiving (i) high-level instruction in the principles of molecular evolution and phylogenetics; (ii) advanced training in statistical methods best suited to modern datasets and biological questions concerning species, populations, or infectious diseases; and (iii) hands-on experience with the latest software tools (often from the authors of the programs they are using). The material is delivered via lectures, discussions, and bioinformatic exercises motivated by contemporary topics in molecular evolution.

A hallmark of this workshop is the direct interaction between students and field-leading scientists. The workshop serves graduate students, postdocs, and established faculty from around the world seeking to apply the principles of molecular evolution to questions of both basic and applied biological sciences. A priority of this work-

shop is to foster an environment where students can learn from each other as well from the course faculty. As the course progresses, participants learn how to use the following software and tools to address questions concerning the origins, maintenance, and function of molecular variation: ASTRAL, BEST, FASTA, IQ-TREE, MIGRATE, MAFFT, MP-EST, Open Tree, RAxML, RevBayes, PAML, PAUP*, SNaQ, and SVD Quartets. Students will have the opportunity to work with software on their own laptops as well as receive training on how to use the same programs on a computer cluster. In 2024, the confirmed course instructors include Peter Beerli, Joseph Bielawski, Jeremy Brown, Belinda Chang, Scott Edwards, Mandev Gill, Tracy Heath, John Huelsenbeck, Sungsik Kong, Lacey Knowles, Laura Kubatko, Paul Lewis, Emily Jane McTavish, Megan Smith, Claudia Sols-Lemus, and David Swofford.

Deadline for applications is January 29, 2024: https://-www.mbl.edu/education/advanced-research-training-courses/course-offerings/workshop-molecular-evolution More information on the Workshop is available on the course website: https://molevolworkshop.github.io For further information, please contact Workshop co-Directors: Laura Kubatko and Tracy Heath at moledirector@mbl.edu.

Tracy Heath <trayc7@gmail.com>

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

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.