E v o l D i r

August 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

ArizonaStateU MechCellEvolution Nov6-9

"2024 CME Symposium - NSF BII for Mechanisms of Cellular Evolution's Annual 2024 Symposium

Date: Wednesday, Nov. 6 - Saturday, Nov. 9 Location: Biodesign Building B, Arizona State University, Tempe Campus

The CME Symposium on Mechanisms of Cellular Evolution is being organized by the Biology Integration Institute for Mechanisms of Cellular Evolution at Arizona State University. The event is scheduled to take place from November 6-9, 2024, in Tempe, AZ. The symposium is the third in a series of annual events focused on the emerging interdisciplinary field of evolutionary cell biology (ECB). This field combines evolutionary biology and cell biology with other related disciplines, including biochemistry, biophysics, population genetics, molecular biology, and mathematics. The symposium aims to bring together leading researchers and experts from diverse fields to discuss current advances and future directions in ECB, and to provide opportunities for interdisciplinary discussions, knowledge sharing, and collaboration.

Please click on the link (https://na.eventscloud.com/ereg/newreg.php?eventid=798877&) to access the registration page to gather more details and sign up for the event."

Victor Chai <Victor.Chai@asu.edu>

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Asilomar AmerSocNat AcceptingProposalsForSymposia

Accepting Proposals for Symposia at The American Society of Naturalists stand-alone meeting in Asilomar 2025 (Due July 15, 2024)

The American Society of Naturalists will be going back to Asilomar in Pacific Grove, California, to hold our stand-alone conference - Asilomar 2025 - on 3-7 January 2025!

Have an idea for a special symposium? We want to hear it!

The ASN Symposium Committee invites you to submit proposals for a special symposium. Proposed symposium topics should support the Society's goal to advance the conceptual unification of the biological sciences and to further knowledge in evolution, ecology, behavior, and organismal biology. Topics could center around important emerging issues in evolution, ecology, or behavior or focus on a pivotal historical paper, tracing its impact and exploring current cutting-edge research inspired by this work.

Proposals should include (1) a title; (2) a description of the symposium topic (up to one page); (3) a list of six speakers, including institutional affiliations, who have agreed to participate in the symposium; (4) a justification for the symposium, explaining why the topic and speakers are appropriate for an ASN symposium (up to one page).

Please submit proposals by email (michelle.afkhami@miami.edu) no later than midnight Eastern Time on July 15, 2022. Send your proposal as a single pdf attachment, under subject heading "ASN Asilomar 2025 Symposium Proposal".

In line with the ASN's commitment to diversity, we encourage including speakers from groups who have been historically excluded from STEM. Therefore, proposals that include a diverse list of speakers from a range of backgrounds, institutions, career stages, geography, gender, race etc. are especially encouraged. Further, we especially encourage early career researchers to propose sessions as organizing symposia can advance their careers through building broader scientific networks and a record of scientific leadership.

Additionally, the Society's selection committee will evaluate proposals based on their potential to attracting substantial audience and stimulate discussion, the significance and timeliness of the topic, and on the topic's differing substantively from recent symposia hosted by the Society. Applicants will be notified of the decision before the end of August 2025. In cases of financial hardship, requests for assistance to allow participation in symposia can be made to the American Society of Naturalists and will be evaluated on a case-by-case basis.

Michelle Afkhami ASN Symposium Committee Chair Department of Biology University of Miami michelle.afkhami@miami.edu

Michelle E. Afkhami, Ph.D.

Associate Professor & *UM Greenhouse Director* University of Miami Department of Biology Coral Gables, FL *michelleafkhami.wordpress.com* she/her/hers

Michelle Afkhami <michelle.afkhami@gmail.com>

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Asilomar AmerSocNat Jan3-7 Proposals Aug11

Extended Deadline for Proposals for Symposia at The American Society of Naturalists Meeting in Asilomar 2025 (Due August 11, 2024)

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Asilomar AmerSocNaturalists Jan3-7 ProposalsAug11

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Online ESEB InternalConflictsSTN Aug13

Dear colleagues,

We would like to invite you to the next online seminar for the "Internal Conflicts and Organismal Adaptation" Special Topic Network (STN) funded by the European Society for Evolutionary Biology, which will take place on August 13th at 23:00 UTC. Our speakers for this seminar are:

Geoff Wild (Western University): Evolution of social traits modelled in a systematic actor-centred way.

Stefania Kapsitaki (Tufts University): What explains the variation in cancer prevalence across vertebrates?

We expect the meeting to take approximately 1.5 hours.

Meeting details:

Link: https://georgetown.zoom.us/j/92963656777
Date: August 13th, 2024.

Time: 23:00 UTC.

If you would like to get on our mailing list and take part in our upcoming events, please sign up HERE or visit our website (https://internalconflictsstn.wordpress.com/) for more information.

Sincerely,

The Internal Conflicts and Organismal Adaptation STN

Martijn Schenkel, Arvid Ãgren, Manus Patten, and Nina Wedell

ESEB-funded Special Topic Network "Internal Conflicts and Organismal Adaptation" https://-internalconflictsstn.wordpress.com/ https://eseb.org/-prizes-funding/special-topic-networks/ Internal Conflicts STN <internalconflictsstn@gmail.com>

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Online EvolEcolGenetics Sep18-20

Ecological Genetics Group Annual Meeting #EGG2024: Nature Has No Borders 18-20 September2024 Online

https://www.britishecologicalsociety.org/event/-ecological-genetics-group-annual-meeting-egg2024-nature-has-no-borders/ Abstract submission opens until 18 July Registration opens until 18 August

The Annual Meeting of the Ecological Genetics Group, the longest running Special Interest Group and meeting since 1957, provides a forum for all scientists working at the nexus of ecology, evolution, and genetics.

Nature has no borders and so should the exchange of ideas to advance ecology. This year's EGG annual meeting will be held online to offer a welcoming environment for anyone from anywhere. Over the course of the three-day meeting, you can expect to hear talks that cover different branches of the tree of life that transcend scientific and geographical boundaries. All the talks will be recorded so you can enjoy them anytime regardless of your time zone. Networking sessions will be hosted on gather.town for the e-Posters and welcome delegates to mingle and collaborate. Our annual meetings are known to be extraordinarily friendly for students and early career ecologists, but of course also attract many established ecologists in the field.

We look forward to meeting you at #EGG2024.

Henry Hung (he/they) Co-Chair of Ecological Genetics Group

Tin Hang (Henry) Hung EGG Co-Chair University of Oxford

Ecological Genetics Group Longest running Special Interest Group and meeting of the British Ecological Society since 1957

Advancing ecology and making it count

genetics@britishecologicalsociety.org

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SorbonneU AgingEvolution Oct14

Dear all,

Please find below an advertisement and invitation to attend the 3rd edition of the colloquium "*Expanding evolutionary theories of ageing to take into account symbioses and interactions throughout the Web of Life*".

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

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

It will take place within the University Jussieu, Jussieu Campus, on October 14th, 2024.

Kind regards,

Eric Bapteste

Program:

This colloquium will seek to explore traditional limits to the main evolutionary theories of ageing and to propose novel findings to improve our understanding of how, why and when organisms age in the Web of Life. It will question the explanatory scope and the phylogenetic scope of at least three leading, stimulating evolutionary theories of ageing, namely the Mutation Accumulation theory, the Antagonistic pleiotropy theory and the Disposable Soma theory. Indeed, these theories share a common blindspot. The first two have been developed under the traditional framework of population genetics, and therefore are logically centered on the ageing of individuals within a population or within a species. The third one is usually applied to explain ageing within a species.

Consequently, these theories do not explicitly model the countless interspecific and ecological interactions, such as symbioses and host-microbiomes associations, however well-known to affect many organismal traits as well as organismal evolution. Moreover, these theories have been mostly developed with animal models in mind, mainly those with a neat germen/soma distinction, such as mice and humans, and for this reason all these theories may benefit from novel conceptual developments to further justify and possibly expand their application scope towards other taxa, such as unicellular organisms (protists, bacteria and archaea), which have long been considered, by default and probably erroneously, as non-senescent, and such as extremely long lived taxa, which owing to their unusual biology may still have some lessons to contribute to these theories.

Scientific program for the day:

Provisional program (the speaker order is not truly in order yet)

The current theoretical framework and some of its limits

Pr. Suresh Rattan (Department of Molecular Biology and Genetics, Aarhus University, DENMARK) ≪ *Deepest open issues in the theories of ageing and its evolution*≫

Pr. Annette Baudisch (University of Southern Denmark, DK) ≪ *Why do we need inclusive definitions of ageing?*≫

*Microbiome and Ageing *

*Pr. Paul O'Toole *(School of Microbiology & APC Microbiome Institute Room 447 Food Science Building, University College Cork, T12 Y337 Cork, Ireland.) ≪ *Contribution of the gut microbiome to human ageing at different ages* ≫

Pr. Dario Valenzano (Leibniz Institute on Ageing, Beutenbergstraße 11 07745 Jena, Germany) ≪ *Evolution of the microbiome during host ageing and rejuvenation*≫

Alternative models to study ageing

*Pr. Ulrich Karl Steiner *(Institute of Biology, FU-Berlin, Germany) ≪ *Latest discoveries about bacterial ageing.* ≫

*Dr. Mart Krupovic *(Pasteur Institute, Paris, France) ≪ *First evidence of ageing in Archaea.* ≫

Pr. Emma Teeling (University College Dublin, Ireland) ≪ *New lessons about ageing from non-model organisms* ≫

Dr. Jean-François Le Galliard (CNRS - UMS 3194, CEREEP-Ecotron IleDeFrance, Département de biologie, Ecole Normale Supérieure - PSL Research University, St-Pierre-lès-Nemours, France) "*Ecology and ageing: lizard senescence as a case study*"

Organisational complexity and ageing

Mr. Thomas Duffield (Institute of Inflammation and Ageing ; University of Birmingham ; Queen Elizabeth Hospital ; Mindelsohn Way Birmingham, B15 2WB United Kingdom) ≪ *Epigenetics failure and ageing *≫

Pr. Claudio Franceschi (U. Bologna, Italy) "*Heterogeneity in individual ageing*"

*Dr. Eric Chenin *(IRD / UMMISCO, MNHN / GBIF France) "*Three stages of* *system aging: malleability, elasticity and rigidity*"

*Evolution of ageing and ageing related diseases *

Dr. Samuel Pavard (MNHN, Paris, France) ≪ *Joint evolution of cancer and ageing related diseases in mammals *≫

Mr. Hugo Bonnefous (SU, ISYEB, Paris, France) ≪ *Evolutionary history of Ageing-Related Disease genes* ≫.

Conclusion

*Dr. Jessica Lombard *(ETHICS - EA 7446, Université Catholique de Lille) ≪ *Transhumanist movements and Evolutionary theories of aging: Uses and Misuses *≫

*Dr. Maël Lemoine *(Université de Bordeaux, France) ≪ *What are the deepest

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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

SorbonneU InterdisciplinaryMicrobiomes Oct7

Dear all,

Please find below a description of the interdisciplinary colloquium ≪ New Challenges Induced by Microbiomes ≫ (REVMICNAT5) (funded by the French National Center for Scientific Research (CNRS) via the GDR REVMICNAT : https://www.sb-roscoff.fr/fr/revmicnat and https://www.sb-roscoff.fr/en/revmicnat).

Anyone is invited to attend. Feel very free to advertise by forwarding this email to anyone you may think would be interested.

The event is free, hybrid (attendees can join either in person or virtually) but upon registration by email before September 8th to : epbapteste@gmail.com. When emailing, please let me know whether you would prefer to attend virtually or in person (40 seats, on a first serve, first come basis).

It will take place within the University Jussieu, Jussieu Campus, on October 7th 2024.

Kind regards,

Eric Bapteste

Provisional program (the speaker order is not truly in any order yet)

Provisional program 'REVMICNAT 5th edition':

9:00-9:05: *A few welcome words. Dr. E. Bapteste* (CNRS, ISYEB, Paris, France)

9:06-9:26: *Today's Biology: The microbiome within the microbiome. Dr. Eduardo Rocha (Pasteur, France)*

9:27-9:47: *Today's Biology: Lessons from microbiomes from the past. Dr. Catherine Larose *(CNRS-Université Grenoble Alpes, France)

9:48-10:08: *Today's Biology: Biodeterioration and microbiomes. Dr. Yvan Moënne-Loccoz* (UMR CNRS 5557 Ecologie Microbienne, UMR INRAe 1418 - VetAgro Sup, Université Lyon 1, Villeurbanne, France)

10:09-10:29: *Today's Biology: Holobionts and macroalgae.* *Dr. François Thomas (CNRS, Roscoff, France) *

10:30-10:50: *Today's Biology: Addressing the role of perturbations in microbiome dynamics. Dr. Marco Fondi* (Biology Dep., University of Florence, Italy)

5 minutes break

10:55-11:15: *Politics : The geopolitics of microbes. Dr. Gitte du Plessis* (Academy of Finland Research Fellow, Politics, Tampere University)

11:16-11:36: *Religion : Religion, Animals, and the Theological Anthropology of Microbes in the Pandemicene. Dr. Aminah Al-Attas Bradford* (Department of Applied Ecology, NC State University, USA)

11:37-11:57: *Design:* *Fashion, bioactive textiles and microbiomes**.** Dr. Cláudia Suellen Ferro de Oliveira *(CBQF - Centre for Biotechnology and Fine Chemistry, Universidade Católica Portuguesa, Porto, Portugal)

LUNCH BREAK (1h30 for all speakers)

13:30-13:50: *Art*: *Doing art with microbiomes.* *Lise Leloutre* (Beaux-Arts de Paris, Paris, France)

13:51-14:11: *Art: Microbes, viruses and science-fiction. Marie Truffié *(Graduated from L'Ecole des Arts Décoratifs de Paris, France)

14:12-14:32: *Architecture: Microbiomes and the History of Architecture. Pr. Mark Wigley* (Graduate School of Architecture, Planning, and Preservation, Columbia University, New York, USA)

14:33-14:53: *Law sciences: Microbiomes and the evolution of laws. Dr. Laure Thomasset* (Institut Catholique de Paris, Faculté de Sciences Sociales, d'Economie et de Droit (FASSED), France)

14:54-15:14: *Today's Biology: Person-to-person-microbiome transmission. Dr. Mireia Valles-Colomer* (distancial) (Department of Medicine and Life Sciences UPF (MELIS-UPF), Barcelona, Spain)

15:15-15:35: *Tomorrow's Biology: Microbiomes and the plastisphere. Dr. Méril Massot* (Centre d'Ecologie Fonctionnelle et Evolutive, CNRS-UMR 5175, Montpellier, France)

5 minutes break

15:40-16:00*: Philosophy: Responsibility and the Microbiome. Dr. Kristien Hens* (University of Antwerp, Department of philosophy, Antwerpen. Belgium)

16:01-16:21: *Tomorrow's Biology: The impact of microbiome studies on astrobiology as a field. Dr. Michael Macey* (School of Environment, Earth and Ecosystem Sciences, Faculty of Science, Technology, Engineering and Mathematics, The Open University, Milton Keynes, UK)

16:22-16:39: One spot to be funded by the GDR - for you, maybe? You can apply at epbapteste@gmail.com; your application will be evaluated by the Scientific Committee of Revmicnat

Dr. Eric Bapteste 7, quai Saint-Bernard, Université Pierre et Marie Curie, UMR 7205 ISYEB, Bâtiment A, 4eme et. pièce 427, Paris 75005 France -

Livre pour enfants et curieux: "Le monde surprenant des microbes: virus, bactéries, archées,..." (Editions Circonflexe) "Tout se transforme! Comment marche l'évolution" (Editions Circonflexe)

Livres pour adultes: "Tous entrelacés! Des gènes aux super-organismes, les réseaux de l'évolution" (Belin) "Les gènes voyageurs: l'odyssée de l'évolution" (Belin) "Conflits intérieurs: fable scientifique" (Editions Matériologiques)

Bapteste Eric <epbapteste@gmail.com>

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SyracuseU GLAM-Evogen Aug24

Dear All,

We are excited to announce that the Great Lakes Annual Meeting of Evolutionary Genomics (GLAM-Evogen) will happen on Saturday, August 24th at Syracuse University. You can find more information about the meeting on our website: https://www.ahmed-braimah.com/glam-evogen-24 The registration and abstract submission are now open: https://forms.gle/F38iPJfGz1m1bX8o8. The abstract submission deadline is August 1st, but registration will remain open until August 10th.

Please encourage your students and postdocs to present, as we traditionally aim to celebrate trainee contributions at this meeting. Also please circulate this announcement broadly in your departments and other venues (flier attached).

We are looking forward to hosting you all in Syracuse!

Cheers, Yasir

Yasir Ahmed-Braimah Assistant Professor Department of Biology Syracuse University

Yasir Hashim Ahmed-Braimah <yahmed@syr.edu>

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ULeicester UK TransposonEvolution Nov20-22

Dear Colleagues,

A reminder that the deadline for early bird registration and abstract submission for the 2024 Genetics Society meeting is in 2 weeks, at 23:59 on Wednesday 31st July 2024.

This conference, entitled - The real point is control: transposons as controlling elements in evolution, development and disease (https://my.genetics.org.uk/-item.php?eventid=1038), is being held from Wednesday 20th to Friday 22nd November 2024, at College Court, Knighton Rd, Knighton, Leicester LE2 3UF.

Submit an abstract Follow the instructions on the event page (link above) to submit an abstract form. Non-members are welcome to create a free account in mySociety and follow the submission instructions.

Registration and fees

Book your place via the event page. Early bird rates will be available until end July 2024, when new rates will be released, including virtual attendance.

Early Bird rates -â€â€â€â€â: Â£300 without accommodation / Â£400 with accommodation -â€â€â€â€â-member: Â£400 without accommodation / Â£500 with accommodation -â€â€â€â€â: Â£237 without accommodation / Â£290 with accommodation

A gala dinner on Thursday 21st November is included in the registration fees.

Contact This Genetics Society event is being supported by the Royal Society of Biology. Please direct all meeting or booking queries to Lucy Eckersley at events@rsb.org.uk or on 020 3925 3445.

Best Wishes,

Cristina Tufarelli, Richard Badge, Ed Hollox (University of Leicester), & Ian Henderson (University of Cambridge)

Genetics Society www.genetics.org.uk Dr Richard Badge (he/him/his) Associate Professor in Bioinformatics, SFHEA Hear my name: https://namedrop.io/-richardbadge Department of Genetics and Genome Biology, College of Life Sciences, University of Leicester, University Road, Leicester, LE1 7RH, UK

T: 0116 2525042 E: rmb19@leicester.ac.uk ORCID: 0000-0003-3201-336X

“Badge, Richard (Dr.)” <rmb19@leicester.ac.uk>

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UParana Brazil EvolutionaryBiology Nov20-22

** I Brazilian Congress on Evolutionary Biology **

The newly-established Brazilian Society for Evolutionary Biology (SBBE) will hold its first congress at the Federal University of Paraná in Curitiba Paraná, on the

20th to 22nd of November 2024.

This first SBBE congress will be a unique opportunity for evolutionary biologists working not only in Brazil but also abroad to congregate, exchange ideas, and discuss their latest evolutionary findings.

** SBBE24 Webpage: https://sbbevol.org/ ** SBBE24 Registration Webpage: https://www.even3.com.br/i-congresso-brasileiro-de-biologia-evolutiva-466957/ Stay tuned by following us on our social media:

** SBBE24 Instagram: https://www.instagram.com/-sbbeoficial?theme=dark ** SBBE24 X: https://x.com/-sbbe_oficial ** Confirmed Invited Speakers:

Alena Mayo Iñiguez (Fundação Oswaldo Cruz)

Aline Ghilardi (Universidade Federal do Rio Grande do Norte)

Ana LÃ◌cia Tourinho (Universidade Federal de Mato Grosso)

Andrea Pedrosa-Harand (Universidade Federal de Pernambuco)

Clarisse Palma da Silva (Universidade Estadual de Campinas)

Eduardo Tarazona Santos (Universidade Federal de Minas Gerais)

Fabricio Santos (Universidade Federal de Minas Gerais)

Fernanda Werneck (Instituto Nacional de Pesquisas da Amazônia)

Frederico Henning (Universidade Federal do Rio de Janeiro)

Jose Alexandre Felizola Diniz Filho (Universidade Federal de Goiás)

Kateryna D Makova (Penn State University)

Kelly Zamudio (University of Texas at Austin)

Luiz Eduardo Vieira Del Bem (Universidade Federal de Minas Gerais)

Maria Emilia Yamamoto (Universidade Federal do Rio Grande do Norte)

Mário de Pinna (Universidade de Sāo Paulo)

Nelio Bizzo (Universidade de Sāo Paulo)

Pedro Godoy (Universidade de Sāo Paulo)

Santiago Benitez-Vieyra (Universidad Nacional de Córdoba)

Tábita Hünemeier (Universidade de Sāo Paulo)

Tiago Quental (Universidade de Sāo Paulo)

Waldemir Rosa (Universidade Federal da Integração Latino-Americana)

** Organisers:

Fabricius Domingos (Universidade Federal do Paraná)

Fernanda Caron (Universidade Federal do Paraná)

Mariana Vasconcellos (Universidade de Sāo Paulo)

Matheus Salles (Universidade Federal do Paraná)

Márcia Beltrame (Universidade Federal do Rio Grande do Sul)

George Pacheco (University of Oslo)

We are looking forward to meeting you in Curitiba!

Contact: sbbecongresso@gmail.com

The SBBE24 Committee

Congresso Brasileiro de Biologia Evolutiva <sbbecongresso@gmail.com>

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Ventura California Speciation Mar2-7

Dear Evoldir community,

If you are interested in speciation or topics adjacent to speciation, please mark your calendars and consider coming to the next Gordon Research Conference on Speciation, March 2-7 2025 in Ventura, CA. This will be preceded by a Gordon Research Symposium (March 1-2) for graduate students and postdocs. Information can be found here: https://-www.grc.org/speciation-conference/2025/#: ˜ :text=-For%20the%202025%20GRC%20on,and%20macroevolution%20their%2 .For the upcoming meeting, we wish to encourage speciation-adjacent researchers to attend to broaden the community. To achieve this we have designed the conference to emphasize the proximate mechanistic basis of speciation. This can include the roles of developmental biology, mating systems, neurobiology of mate choice, physiology, ecology, and more in generating species barriers. A list of speakers is now available on the conference website. There will be opportunities for attendees to present posters, and a subset of poster submissions will be invited to give talks as well. The GRS attendees will be able to select several postdoc or graduate student talks to also be presented in the full conference.

Also, if you are interested in this topic, you may wish to check out the new edited book on Speciation, from Cold Spring Harbor Laboratory Press: https://www.cshlpress.com/default.tpl?action=-full&–eqskudatarq=1412 edited by the past chairs and co-chairs of the Speciation GRCs.

We hope to see you in Ventura next year!

Dan Bolnick (chair) Jonna Kulmuni &Rike Stelkens (co-chairs) Anna Feller & Hilde Schneemann (GRS chairs)

"Bolnick, Daniel" <daniel.bolnick@uconn.edu>

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GradStudentPositions

AarhusU Denmark ArthropodEvolutionaryGenomics

We have two open PhD positions in the Centre for Ecological Genetics at Aarhus University, Denmark.

We are seeking enthusiastic PhD students with interests in landscape genetics / biodiversity / ecosystem services / evolutionary ecology in arthropods from agro-ecosystems.

We aim to understand effects of land use and connectivity on population genetic diversity and performance in insects, spiders and soil arthropods, using population genomics and museum genomics coupled with field and lab experiments. https://bio.au.dk/en/research/-research-centres/centre-for-ecological-genetics See more about the positions here: https://phd.nat.au.dk/-for-applicants/open-calls/august-2024/effects-of-landscape-fragmentation-on-population-genomics-and-phenotypic-variation-in-arthropods#c186749 Application 1 August 2024. Starting date from 1 October 2024.

Trine Bilde E-mail: trine.bilde@bio.au.dk

Trine Bilde <trine.bilde@bio.au.dk>

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AuburnU UndergradBiolEdResearch

Graduate student position in Biology Education Research at Auburn University

The Ballen lab at Auburn University seeks a PhD student to develop projects centered around Biology Education Research (the start date would be Fall of 2025). The

position would be partially supported by an NSF-funded study on scientist role models in biology.

We are specifically looking for students who have a Biology Undergraduate/M.S. degree and are interested in applying their knowledge of biology to improve undergraduate biology education.

While students are encouraged to pursue their own specific research interests, current work in the lab can be split into two broad avenues of inquiry: (1) The impacts of promoting counter-stereotypical role models on student outcomes and (2) The impacts of contextualizing societal and ethical considerations into biology curricula. Through large-scale collaboration across many institutions, work in the lab advances understanding of effective and inclusive teaching through integrating research and education in STEM.

Check us out here! Ballenlab.com

The Department of Biological Sciences (DBS) hosts a Recruitment Weekend Event in mid-January and I would be happy to bring folks out who are interested in joining the lab Fall 2025. The deadline to apply for the graduate program is February 1. Email me for more details!

More info on DBS: https://www.auburn.edu/cosam/-departments/biology/index.htm More info on our graduate program: https://www.auburn.edu/cosam/-departments/biology/graduate_programs/index.htm Potential applicants should email the following to: mjb0100@auburn.edu - Cover letter highlighting your relevant research experience, why you are interested joining the lab, as well as any additional information you'd like us to know about you - Curriculum vitae (CV)

Cissy Ballen <mjb0100@auburn.edu>

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BostonU MarinePopulationGenomics

Hello Evoldir community!

I am excited to announce a PhD opening in our lab for Fall 2025. Details pasted below and can also be found here: http://sites.bu.edu/davieslab/join-the-lab/ Please share with your networks and reach out if you have any questions. I will also be in Montreal at the meeting if you have questions or want to chat!

Cheers Sarah

POSTING:

Seeking PhD Student in the Davies Marine Population Genomics lab Fall 2025

The Davies Marine Population Genomics lab is recruiting a prospective Ph.D. student focused on fundamental questions in coral thermal physiology. Our lab was recently recommended for funding for a project focused on understanding how diel thermal variability influences coral performance. This project will require significant time spent in Bocas del Toro Panama (weeks to months at a time) and the work will involve a combination of fieldwork, mesocosm work, and genomic analyses.

Skills or experiences that are specifically relevant to the funded research include: -AAUS certified scuba diver (or desire to be an AAUS diver) -Comfortable conversing in basic Spanish -Experience in the rigors of field research -Strong team player -Background or strong interest in thermal physiology and genomics

We encourage scientists from diverse backgrounds to apply, as we strive to promote historically excluded groups in ecology and evolution. The PhD student would be accepted through the Ecology, Behavior and Evolution (EBE) Biology graduate program at Boston University and be based in Boston, MA. The program offers a guaranteed stipend (~$43k/year) and health insurance for 5 years through a combination of teaching fellowships, an entrance fellowship, and research grants. It is worth noting that the BU Graduate Student Union is currently on strike and in negotiations regarding salary and benefits, among other things (https://bugwu.org/-), therefore these parameters are likely to be modified over the coming year. In general most students in the lab teach during the spring and fall semesters and are supported on research stipends for the summer months or semesters where they are conducting intensive field research

In addition, there is the potential that the incoming student could be hired as a field technician starting as early as January 2025.

Students who will thrive in our lab tend to be interested in: -molecular and genomic approaches with strong backgrounds in quantitative approaches and bioinformatics -answering core ecological and evolutionary questions -fieldwork opportunities with a deep interest in investing in the local community -being a research mentor to high school and undergraduate students through a series of established relationships with local programs -increasing diversity, equity, and inclusion in science

through pedagogy and outreach

To apply, please send the following to daviessw@gmail.com by August 31, 2024! Our lab conducts pre-screening of candidates, followed by zoom interviews and then the top candidates are invited to apply to the PhD program formally. We do recruitment this way to ensure transparency and save folks application fees.

1. Current CV 2. 1 page cover letter describing the scientific questions that excite you and how you will ensure an inclusive environment 3. Contact email for 3 references (academic or non-academic are appropriate). Letters will not be requested immediately, however references will be contacted for short-listed candidates.

Sarah W. Davies M.Sc. Ph.D. she/her/hers Associate Professor Department of Biology Boston University Office: (617) 353-8980 Twitter @DaviesswPhD Email: daviessw@bu.edu Website: http://sites.bu.edu/-davieslab/ *My working hours may not be your working hours. Please do not feel obliged to respond outside of your normal work schedule.*

sarah davies <daviessw@gmail.com>

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JGU Mainz Two AntEvolution

PhD Position JGU, Mainz, Germany Molecular manipulation of host phenotype via regulatory interference

Supervisor: Susanne Foitzik Co-Supervisors: Peter Baumann Project Overview:

Explore the fascinating world of parasitic manipulation with a PhD project focusing on the molecular mechanisms used by the parasitic cestode Anomotaenia brevis to alter the phenotype of its ant host, Temnothorax nylanderi. This project investigates how the parasite interferes with host gene regulation through epigenetic processes, aiming to understand the transcriptional and epigenetic changes that lead to altered host behavior, physiology, and extended lifespan. Key Techniques and Skills:

ï¿½ Evolutionary biology with a focus on parasite-host interactions

ï¿½ Epigenetic molecular techniques: CUT&TAG, Bisulfite sequencing, RNAseq, microRNA, RNAi

ï¿½ Bioinformatics analysis and scripting

ï¿½ Ant colony collection and behavioral studies Qualifications:

Applicants should have a Master's or 4-year Bachelor's degree in biology, molecular biology, or bioinformatics. Knowledge of bioinformatics, molecular genetics, and evolutionary biology is important. Experience with social insect biology and parasitology is advantageous but not required.

Publications: Seistrup et al., 2023 - Molecular Ecology, Hartke et al., 2023 - Molecular Ecology, Sistermans et al., 2023 - Molecular Ecology, Beros et al., 2021 - Royal Society Open Science, Beros et al., 2015 - Proceedings of the Royal Society B

Apply now to contribute to cutting-edge research on the molecular manipulation of host phenotypes by parasites!

This projects is part of the international PhD training program Gene regulation in Evolution https://-www.genevo-rtg.de/. In GenEvo, scientists are working together on the core question of how complex and multilayered gene regulatory systems have evolved. Experts in the field of molecular & evolutionary biology support & train our PhD students in their interdisciplinary research as well as their personal development. Offered position will be located at the Faculty of Biology of JGU in Mainz. All PhD students will become a member of the International PhD Programme (IPP).

Mainz is a history lively city with a large student population, located at the river Rhine.

Application webpage: https://www.genevo-rtg.de/-application Registration deadline: 15 July 2024 Interviews: 9-10 September 2024 Starting date: 1 January 2025

Prof. Dr. Susanne Foitzik Institute of Organismic and Molecular Evolution Johannes Gutenberg University Mainz Biozentrum Hanns Dieter Hüsch Weg 15 D-55128 Mainz Germany Tel: +49 (0) 6131 39 27 840 Fax: +49 (0)6131 39 27 850 Email: foitzik@uni-mainz.de

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PhD Position JGU, Mainz, Germany Epigenetic Regulation of Division of Labor in Ants Supervisor: Susanne Foitzik Co-Supervisors: Peter Baumann, Susanne Gerber, Hanna Kokko

Project Overview:

Join an exciting PhD project focused on uncovering the molecular mechanisms regulating division of labour in the ant Temnothorax longispinosus. This project aims to identify epigenetic processes and their impact on gene networks, exploring how external and internal signals

influence task-specific behaviours. You will delve into the roles of histone acetylation, transcription factors, and odorant receptors in shaping worker specialization.

Key Techniques and Skills:

Behavioural genomics and evolutionary biology Behavioural observations and field ant collection Epigenetic molecular techniques: CUT&TAC, RNAseq, microRNA, RNAi Bioinformatics analysis and mathematical modelling

Qualifications:

Candidates should hold a Master's or 4-year Bachelor's degree in biology, molecular biology, or bioinformatics. Knowledge of bioinformatics, molecular genetics, and behavioural or evolutionary biology is a plus. Experience with mathematical modelling and social insect biology, especially ants, is beneficial but not mandatory.

Publications: Caminer et al., 2023 - Communications Biology; Kohlmeier et al., 2023 - Biology Letters, Libbrecht et al., 2020 - Iscience, Kohlmeier et al., 2019 - Molecular Ecology, Kohlmeier et al., 2018 - PLOS Biology

Apply now to be part of groundbreaking research at the intersection of evolution and epigenetics!

This project is part of the international PhD training program Gene regulation in Evolution https://-www.genevo-rtg.de/. In GenEvo, scientists are working together on the core question of how complex and multilayered gene regulatory systems have evolved. Experts in the field of molecular & evolutionary biology support & train our PhD students in their interdisciplinary research as well as their personal development. Offered position will be located at the Faculty of Biology of

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MaxPlanckEvolBio PloenGermany TheoreticalBiology

PhD position in Theoretical Biology (4 years)

I am looking for a PhD student to join my research group at the Max Planck Institute for Evolutionary Biology. The position is part of the Collaborative Research Unit 'Density dependent symbiosis in planktonic systems - DynaSym', which brings together several research groups across Germany to test and develop basic concepts of density dependence of the symbiosis form (e.g., shift from predator-prey to mutualistic interaction and back).

Modeling parasite epidemics in host populations with symbiont-mediated immunity

Protective symbionts can provide hosts with immunity against virulent parasites. Yet, symbionts themselves may also be costly for the host. The form of symbiosis is thus context dependent: mutualistic upon exposure (or infection) with the virulent parasite but parasitic in its absence. The probability of exposure to the virulent parasite and thus the expected form of symbiosis changes over the course of a parasite epidemic. In turn, the prevalence of symbionts in the host population affects the parasite dynamics, creating complex feedbacks between the densities of hosts, parasites, and symbionts. Classical theory on host-parasite systems only considers two players – the host and the parasite. The possibility of protective symbiosis clearly demonstrates the need for theory that goes beyond two-species systems. In this project, we will develop theoretical models to study the joint changes in the densities of hosts, symbionts, and parasites and the associated changes in the form of symbiosis. Initially, we will mostly develop general theory, but we will later also explore models that match the biology of Daphnia and its parasites. In collaboration with other members of the Research Unit, models can moreover be tailored to other systems of protective symbiosis that are studied empirically within DynaSym.

The Research Unit DynaSym has recently been funded by the German Research Foundation DFG (www.uni-konstanz.de/en/university/news-and-media/current-announcements/news-in-detail/mal-freund-mal-feind) and is a collaborative initiative bringing together research groups from across Germany and international collaborators. 8 projects will collaborate within the research unit and cover experimental work with plankton systems, modeling, theory development, and synthesis work. Workshops, retreats, and research visits to other research groups are planned for all participants to facilitate exchange and additional training. The ideal student is interested in applying mathematical modeling to gain insights into biological problems, enthusiastic about math as well as about biology, and excited about engaging in the research unit. The student will learn how to set up and analyse theoretical models to describe biological processes and profit from close interactions with empirical researchers. Applicants should have a background in mathematics, physics, biology, computer

science, or a related field. Good quantitative skills are essential. Prior experience in mathematical modeling and knowledge of a programming language (C, C++, Java, Python, Julia...) is an advantage.

Working environment

The student will join the research group 'Stochastic Evolutionary Dynamics' at the Max Planck Institute for Evolutionary Biology. The group is part of the Department of Theoretical Biology. The student will hence be part of a community of researchers working at the intersection of mathematics and biology with many opportunities to take part in journal clubs, reading groups etc.

The Max Planck Institute is a lively institute with around 180 employees from more than 30 nations. There are currently two departments (Theoretical Biology and Microbial Population Biology) and several additional research groups. It hosts several workshops per year and continuously welcomes international short-term and long-term visitors, creating a stimulating and positive research environment. We maintain close interactions with Kiel University and belong to the Kiel Evolution Center. The area is a center of evolutionary biology in Germany.

Plön

Plön is a small town, embedded into a beautiful landscape with numerous lakes and close to the Baltic Sea. The area provides ample opportunity for free time activities such as swimming, canoeing, or biking in a stunning environment. At the same time, the cities of Kiel and Lübeck (â¥200,000 inhabitants) are only half an hour train ride away. Hamburg (Germany's second largest city) can be reached within 1.5h by train.

Application

Interested students should send their application (motivation letter, CV, copies of certificates, contact details of two references) by email to uecker@evolbio.mpg.de and to bewerbung@evolbio.mpg.de. Please use the

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Montpellier AdaptationCropWildRelatives

Applications are invited for a fully funded 3-year PhD fellowship based at INRAE Montpellier (France), aiming at characterizing the genetic bases of adaptation in wheat wild relatives.

Studying the molecular and evolutionary mechanisms underlying species response to selection is crucial to understand how biodiversity and agroecosystems may adapt to current global changes. There is evidence that the probability that the same genetic variants are mobilized in response to selection depends on populations and species divergence (e.g. Bohutínská/et al./, 2021). A relevant strategy to quantify to which extent different species adapt through the same genes/alleles is to investigate the signatures of selection in a multispecies comparative setting.

This PhD proposal addresses this question using as model system the Triticeae, a family of grasses that includes worldwide staples wheat, barley and rye, and their wild relatives (Glémin/et al./, 2019; Burgarella/et al./2023). We will leverage transcriptomic and genomic data to investigate the molecular signatures of selection at two evolutionary scales, i.e. phylogenetic and within-species levels, with approaches of molecular evolution, population genomics and bioinformatics. The PhD student will be hosted by the team GE2pop (/Evolutionary genomics and population management/), UMR AGAP Institut (https://umr-agap.cirad.fr/en). Supervisors will be Concetta Burgarella (population geneticist, INRAE), Nathalie Chantret (evolutionary genomicist, INRAE) and Vincent Ranwez (molecular phylogeneticist, Institut Agro Montpellier).

We are looking for applicant holding a MSc. Degree and with expertise in evolutionary biology and genomic data analysis. Interested candidates should provide: (1) a motivation letter with a statement of research interests, skills and experience relevant to the position, (2) a CV, (3) contact details of two referees, (4) copies of previous degrees and transcripts of records and (5) a copy of the master thesis. Candidatures or informal queries should be emailed to concetta.burgarella@inrae.fr,nathalie.chantret@inrae.fr and vincent.ranwez@supagro.fr.

The deadline to apply is August 25th.

The start date is flexible during autumn 2024. A more detailed version of the proposal is available here: https://-/umr-agap.cirad.fr/content/download/7560/68385/-version/1/file/PhD_triticeae_GE2pop_AGAP.pdf

Bohutínská, M., Vlèek, J., Yair, S., Laenen, B., Koneèná, V., Fracassetti, M., et al. (2021) Genomic basis of parallel adaptation varies with divergence in Arabidopsis and its relatives. Proceedings of the National Academy of Sciences, 118, e2022713118. Burgarella, C., Brémaud, M.-F., Hirschheydt, G.V., Viader, V., Ardisson, M., Santoni, S.,/et al./(2023) Mating systems and recombination landscape strongly shape genetic diversity and selection in wheat relatives. bioRxiv doi: 10.1101/2023.03.16.532584 Glémin, S., Scornavacca, C., Dainat, J., Burgarella, C., Viader, V., Ardisson, M.,/et al./(2019) Pervasive hybridizations in the history of wheat relatives./Science Advances/,*5*, eaav9188.

Best regards,

Concetta Burgarella

Concetta Burgarella INRAe, Equipe Genomique Evolutive et Gestion des Populations UMR AGAP Batiment Arcad 10 rue Arthur Young 34090 Montpellier concetta.burgarella@inrae.fr www.inrae.fr Concetta Burgarella <concetta.burgarella@inrae.fr>

NORD Norway FunctionalEvolutionaryGenomics

About the PhD fellowship:

Much of life's diversity is mediated by variation in life-histories, impacting species adaptation, survival, or reproduction, yet very little is known about the underlying molecular basis. Atlantic salmon is among the most variable vertebrates on Earth in terms of life-histories, making it a powerful model to study how complex differences in ecologically relevant life-history traits are regulated at the molecular level. Leveraging on state-of-the-art functional genomics, this PhD project will study the molecular basis of the spectacular variation found in life-history variation of Atlantic salmon.

The PhD candidate will contribute towards discovering the molecular mechanisms that encode for reproductive allometry and maturation age variation in Atlantic salmon. The project will have multifold impacts across basic and applied science: i) to understand the molecular mechanisms controlling allometry and maturation in an evolutionary context, ii) to deliver comprehensive knowledge of reproductive traits for applications in aquaculture, and iii) to identify potential target genes for precision breeding of egg, brood, and maturation characteristics. Furthermore, by using a naturally fast-reproducing dwarf Atlantic salmon for functional experiments, this project will establish a novel experimental system to study freshwater adaptive traits of potential value to land-based aquaculture.

The candidate will join the Genomics division at Nord University. Associate Professor Jukka-Pekka Verta will lead the project, in collaboration with researchers at Concordia University (Canada).

The vibrant city of Bodø is surrounded by stunning Arctic nature and offers excellent quality of life in one of the world's most developed countries. In addition to developing projects at a state-of-the-art recirculating aquatic facility (RAS), the candidate will have access to brand-new molecular laboratories and offices at the new Noatun building.

The contract will be for a 3-year period without teaching. The start date is set for January 1, 2025, though this is flexible.

Qualification requirements:

- A master's degree in a relevant field of study - Applicants from outside the EU/EEA must submit NOKUT approval of their master's degree - Grade average of B or better (or equivalent score) both for the programme in total and the master's thesis - The grades at the qualifying MSc examination needs to be B or better (ECTS scale from A-E) to be admitted to the PhD program.

The candidate should be self-motivated with demonstrated organization and time-management skills. Good written and spoken skills in English are essential. Candidates with experience in molecular genetics wet-lab work, with skills in the programming language R, or with other bioinformatics skills will be preferred. Prior experience with functional genomics (e.g. RNA-seq, ATAC-seq, ChIP-seq, scRNA-seq) is considered a significant advantage, but not required. Peer-reviewed publications in a field relevant to the project are not required but are considered as an advantage.

Qualified applicants will be ranked according to the following criteria:

- The applicant's description of motivation for the doctoral work and their commitment for completion of PhD project within 3 years - Demonstrated experience and en-

thusiasm in related research work such as ecological and evolutionary genomics, functional genomics, or evolutionary biology - Demonstrated ability for independent, goal-oriented and systematic scientific work

We offer:

- The annual salary for doctoral researchers (code 1017) is set at wage level 54, NOK 532 200,- in the Norwegian State Salary Scale. - Advantages within the Government Pension Fund for borrowing, insurance and pension - Inclusive and collegial working environment - A workplace with progressive development - Flexible working hours

Application:

Applications must be submitted electronically by 01.09.2024 through JOBBNORGE following the link below

https://www.jobbnorge.no/en/available-jobs/job/-264030/phd-position-in-functional-and-evolutionary-genomics The application should include:

- Application letter with description of your motivation for applying for the position - Complete CV (education, work and teaching experience and overview of any scientific publications) - Copy of diploma for both bachelor and master education and relevant certificates - Copy of the applicant's master's thesis as a PDF file - Name and contact information of 1-3 references including the supervisor of their MSc thesis (name, your relation to the person, email and phone number) - All documents must be uploaded as attachments to the electronic application form.

After the application period has expired a list of applicants will

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OsnabrueckU Germany ResAssist SynergisticCoevolution

The Department of Ecology at the School of Biology/Chemistry is seeking to appoint a Research Assistant (m/f/d)(salary grade E 13 TV-L, 65%) to commence at the earliest possible date. The position is fully funded for three years.

Background: A major challenge in evolutionary biology is to understand how interactions between different organisms shape the process of coevolution. While this issue is well-understood for antagonistic interactions (e.g. between parasites and their hosts), our knowledge on synergistic coevolution is rather poorly developed. Specifically, it remains unclear how ecological interactions determine the evolutionary dynamics of coevolving populations and thus the mutational trajectories of the individuals involved. This includes in particular the question whether and how synergistic coevolution affects the rates of molecular evolution and phenotypic diversification within interacting consortia. This project will address these issues by taking advantage of a previously performed coevolution experiment, in which a cooperative mutualism evolved between two genotypes of the bacterium Escherichia coli.

In collaboration with Dr. Alexander Herbig (MPI for Evolutionary Anthropology, Leipzig), both isolated strains and whole populations will be longitudinally sequenced to unravel the order and distribution of mutations that arose during synergistic coevolution. In addition, isolated and genetically reconstructed strains will be subjected to carefully designed coculture experiments to clarify how individual mutations affect the evolutionary dynamics of interacting genotypes on both a cell- and a population-level. In this way, the experimental tractability of the focal model system will help to identify the underlying eco-evolutionary mechanisms and thus help to understand other types of mutualistic interactions, in which similar analyses are frequently not possible.

Your Duties: - Participate in the DFG-funded project "Eco-evolutionary causes and genomic consequences of synergistic coevolution " - Perform coculture and coevolution experiments with different bacterial strains - Reconstruct mutations in different genetic backgrounds - Conduct growth experiments to analyse fitness consequences of mutations - Determine the cooperativity of bacterial strains by quantifying their amino acid production rates (LC-MS/MS) - Spatio-temporal analysis of bacterial aggregates using tools of microfluidics and fluorescence microscopy - Flow cytometric analyses - Close collaboration with cooperation partners Dr. Alexander Herbig (Max Planck Institute for Evolutionary Antrhropology) and Dr. Alexander Grünberger (Karlsruhe Institute of Technology) - The successful candidate will have the opportunity to work towards a PhD

Requirements: - Completed degree (M.Sc. or comparable) in biology or a related field - Solid practical experience in microbiological techniques and molecular biological methods - Excellent command in written and spoken English

Additional Qualifications: - Sound knowledge of ecological and evolutionary concepts and theory - An excellent university degree - Creative way of working - Strong motivation and curiosity - Ability to work in an interdisciplinary team - Structured and independent way of working - Experience in using high-resolution fluorescence microscopy - Knowledge of quantitative working methods and statistical analysis procedures - Working knowledge in using programming languages (e.g. Python) - Ability to develop and analyse theoretical models (population dynamics, individual-based models) is a plus

We Offer: - An exciting and highly topical research project - Working in an interdisciplinary and international research team - Collaboration with other partner groups - Participation in the excellent graduate education programs at Osnabrück University (ZePrOS, IRTG) - Access to the state-of-the-art research infrastructure at the School of Biology/Chemistry (CellNanOs) - Live and work in the vibrant and liveable city of Osnabrück

Osnabrück University is a family-friendly university and is committed to helping working/studying parents balance their family and working lives. Osnabrück University seeks to guarantee equality of opportunity for women and men and strives to correct any gender imbalance in its schools and departments.

If two candidates are equally qualified, preference will be given to the candidate with disability status.

Please submit your application (including a letter of motivation, CV, copies of certificates) by 28.07.2024 as one PDF file via email to the Dean of the School of Biology/Chemistry (Email:bewerb-bio@uni-osnabrueck.de).

Please contact Prof. Dr. Christian Kost (email:christian.kost@uni-osnabrueck.de, homepage:kostlab.com) for further information.

We are very much looking forward to receiving your application.

Christian Kost <christiankost@gmail.com>

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TempleU Philadelphia EvolutionaryBiol

The Liberles Group at Temple University (Philadelphia, PA, USA) will be looking for a new Ph.D. student to apply this fall to begin Ph.D. studies in summer/fall, 2025. The ideal candidate is someone with an interest/background in evolutionary biology, with a strong background in math and with coding skills, but I am open to students with biochemistry, biophysics, applied math, or other backgrounds as well (so long as they are interested in evolution). There are several potential projects in computational molecular evolution and comparative genomics that are available/open. Please email me with a CV/resume and an unofficial transcript (daliberles@temple.edu) if interested. My last Ph.D. student graduated in April and I am currently a "rotating" program director at NSF, but will be back at Temple and look forward to working closely with a new student when I rebuild my research group.

David A Liberles <daliberles@temple.edu>

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UBarcelona PlasticityColorationMayfly

Graduate position: UBarcelona.PlasticityColorationMayfly PhD position (4 years) fully funded studying "Phenotypic plasticity versus phenotypic determinism: colour variations in the mayfly Cloeon dipterum (COLOREON Project)" University of Barcelona, Spain.

The Almudi lab located at the Genetics, Microbiology & Statistics Department, at the University of Barcelona is offering one PhD student contract.

Project: The laboratory is interested in understanding the adaptation to different environments and the origin of new organs during the radiation of winged insects. During the last years, the laboratory has established the mayfly species, Cloeon dipterum, as an emergent

model organism to investigate insect evolution and evolutionary novelties (see Pallares-Albanell, Ortega et al., (2024), Almudi et al., (2020) Nat Comms 11,2631; Almudi et al., (2019) Evodevo 10, 6). The specific aim of the COLOREON project is studying the evolution of the regulatory networks responsible for the phenotypic plasticity observed in mayfly nymphs and the sexual dimorphism occurring in mayfly adults. The project will combine state-of- the-art functional genomics, transcriptomics, advanced imaging, genome editing methods, and high-performance liquid chromatography (HPLC)

Eligibility: Successful candidates will have a keen interest in developmental and/or evolutionary biology. The ideal candidate will have some experience/interest in both wet lab, bioinformatics and/or insect biology, although this is not strictly necessary as training will be provided. We expect the candidate to be creative, and enthusiastic to work in a multi-disciplinary team.

Job description: We are offering a 4-year Predoc contract associated to the PID2023-151401NB-I00 project, funded by the Spanish Research Council. Remuneration (fixed by UB) will range from ˜18000 euro (1st year) - 23000 euro (4th year) gross/year. The expected starting date is beginning of 2025.

Working environment and life in Barcelona: The candidate will be enrolled in the Genetics doctoral program from the University of Barcelona. This is a very multidisciplinary program that covers basic and applied research and that helps developing training competences. The candidate will also benefit from the international and collaborative atmosphere of our research group and of the Department and the Institute de la Recerca de la Biodiversitat (IRBio).The department offers a privileged environment, including the so-called “Barcelona Evo-Devo School”, with an excellent international community. The team is committed to maintaining a respectful, inclusive, and friendly working environment, as well as promoting your career development. Barcelona is a cosmopolitan and vibrant city and a major cultural, economic, and financial centre in southwestern Europe.

Application procedure: Interested candidates should submit a single pdf file with a motivation letter, a short description of current and past research projects, their CV, and contact details of 2 referees to ialmudi@ub.edu.

Deadline: 31st, August 2024. The application will be formalized in September 2024 (from September 9th until Sept. 27th) Starting date is expected to be beginning of 2025. For more information, please check https://www.mayflyecoevodevo.com/home or contact ialmudi@ub.edu.

Sophie Tandonnet <sophie.tandonnet@gmail.com>

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UExeter AphidImmuneEvolution

Aphids are of major economic and agricultural importance. Biocontrol strategies are increasingly using parasites and pathogens over chemical insecticides. However, aphid immune responses are poorly-studied. The last major investigation of aphid immunity used the Green pea aphid genome in 2010, finding this species had lost its Imd immune pathway (a striking result). It is unclear if this is true of other aphids, or how this might impact host-pathogen interactions. The interested PhD candidate will investigate the evolution of aphid immune systems using recently-sequenced genomes and infection experiments. With access to a living library of 110 sequenced aphid strains, the student can further investigate the principles of insect immune evolution in aphids, which have lost important immune pathways. The student can also study how variation in populations contributes to infection outcomes in this importance agricultural and economic insect.

For more information, please see: https://-www.exeter.ac.uk/study/funding/award/?id=5191 Or contact Mark Hanson at mark.hanson@exeter.ac.uk

Mark A. Hanson Wellcome Early Career fellow University of Exeter, Penryn campus Centre for Ecology and Conservation Stella Turk B046-003

Ph: 0 7380 517 086

“Hanson, Mark” <M.Hanson@exeter.ac.uk>

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UGoettingen Eleven EvolutionaryGenomics

“At the University of Göttingen -Public Law Foundation-, graduate school 2984 Evolutionary Genomics: Consequences of biodiverse Reproductive Systems, there are

11 positions as Doctoral Researchers in Evolutionary Genomics (all genders welcome) Entgeltgruppe 13 TV-

L/65% to be filled. Starting date is 1/1/2025. The position is limited to 31.12.2027.

These are qualification positions for junior researchers pursuing a PhD degree for three years, with a possible prolongation for up to one year. The goal of our research training group is to analyze the evolution of genomes in sexual and asexual organisms in animals, plants, fungi, and microorganisms. Our collaborative efforts will provide a better understanding of the "paradox of sex" in nature. We will study the evolution of nuclear genomes to test hypotheses of genome erosion and functional changes with asexuality, the interaction of nuclear-organelle genomes under different modes of reproduction, and horizontal gene transfer via viruses between prokaryotes and prokaryotes-eukaryotes. We will further include projects to develop new methods for analysis of chromosome architecture and models for genome analysis under different mutation-selection scenarios.

Please see further details on the PhD projects at our homepage: https://uni-goettingen.de/de/687607.html. Please indicate your preferred project(s) (up to three, in order of preference) in your motivation letter.

Successful candidates will have - an outstanding Master's degree (or equivalent) in Biology, with a focus on evolutionary genomics, - experience in molecular lab work and/or in bioinformatics and statistical genomics methods - proven background in theory related to evolution of reproductive systems, - excellent command of scientific English (oral and written, min. equivalent to C1).

We also expect successful candidates to be active team players in the RTG.

Your application should include a letter of motivation, CV, lists of publications, transcripts of your Master's degree or equivalent, and certificates of English language proficiency as pdf files.

We offer an excellent research team on the Göttingen Campus, including a Center for National High Performance computing and an AI service center. Our training concept includes seminar and conference presentations, methods courses and workshops, and teaching.

Experience with innovative methods, networking and publishing within the RTG team will be gained.

The University of Göttingen is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply in fields in which they are underrepresented. The university has committed itself to being a family-friendly institution and supports their employees in balancing work and family life. The University is particularly committed to the professional participation of severely disabled employees and therefore welcomes applications from severely disabled people. In the case of equal qualifications, applications from people with severe disabilities will be given preference. A disability or equality is to be included in the application in order to protect the interests of the applicant.

Please upload your application in one pdf file including the usual documents until 9/9/2024 on the application portal of the university using this link: http://obp.uni-goettingen.de/de-de/OBF/Index/74570. For more information get in touch with Elvira Hörandl directly via E-Mail:

elvira.hoerandl@biologie.uni-goettingen.de, Tel. +49 551 39 28540 .

Please note: With submission of your application, you accept the processing of your applicant data in terms of data-protection law. Further information on the legal basis and data usage is provided in the

Information General Data Protection Regulation (GDPR)"

Elvira Hörandl <ehoeran@uni-goettingen.de>

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UHelsinki TheoreticalEvolBiol

PhD Position at University of Helsinki, Finland

Theoretical Evolutionary Biology

Modelling the evolution of ageing and life history theory

Supervisor: Piret Avila

The Faculty of Biological and Environmental Sciences and Academy Research Fellow Dr. Piret Avilaare seeking a highly motivated PhD student to develop theoretical work on the evolution of ageing and life history theory. This planned PhD project will focus on understanding the diversity of ageing patterns across the tree of life, investigating why some organisms exhibit negligible ageing and exploring sex-specific differences in ageing. The work has significant implications for ageing research, reproductive health and life history theory more broadly. We utilize various methods from theoretical evolutionary biology, including evolutionary

game theory, adaptive dynamics, population genetics, and optimization theory.

WHAT WE OFFER

- A fully-funded 4-year PhD student position at the University of Helsinki (the Viikki campus) with a flexible start date, starting from 01.09.2024. - An exciting opportunity to conduct impactful research in a supportive and stimulating environment. - Exceptional scope for collaboration, with a planned research visits with leading research groups in the field. - Plenty of opportunities to attend international conferences to build your scientific network. - Access to top-notch resources and excellent support to further learning and professional development.

YOUR PROFILE

- A highly motivated student with a Master's degree in biology, mathematics, physics, economics, or a related field. - Strong analytical and quantitative skills. - Curiosity and aptitude for learning are more important than specific background. - Excellent written and oral communication skills in English. - Strong interest in evolutionary biology if from a background other than biology.

We value a diverse, equitable, and inclusive work environment. All qualified applicants will receive consideration for the position, without regard to race, colour, religion, gender, gender identity or expression, sexual orientation, origin, genetics, disability, or age.

The appointee should either already have the right to pursue a doctoral degree at the University of Helsinki by the start of the appointment or apply for the right and obtain it within the probationary period of six months of their appointment. If the appointee does not already have the right to pursue a doctoral degree at the University of Helsinki, it must be applied for separately, please see: https://www.helsinki.fi/en/research/doctoral-education/the-application-process-in-a-nutshell The starting salary of the Doctoral researcher will be based on level 2 of the requirement level chart for teaching and research personnel in the salary system of Finnish universities. In addition, the appointee will be paid a salary component based on personal performance. The starting salary of the Doctoral researcher will be ca. 2400-2600 euros/month,depending on the appointees' qualifications and experience.A six-month trial period will be applied.

The University of Helsinki offers comprehensive services to its employees, including occupational health care and health insurance, unemployment and pension fund, a generous holiday package, sports facilities, and opportunities for professional development (https://-www.helsinki.fi/en/about-us/careers).

HOW TO APPLY

A cover letter (max 1 page) detailing their experience and research interests

Curriculum vitae showing the applicant's education, completed qualifications, work experience, possible list of publications and contact information of 2 persons for references (up to 3 pages).

Copies of Master's, and Bachelor's degree certificates and official transcripts of the records, and their translations, if the originals are not in Finnish, Swedish or English.

External applicants,please submit your application using the University of Helsinki Recruitment System via the Apply Now button.

Applicants who have a helsinki.fi username and a valid employment contract, a grant researcher's contract or a visiting researcher's contract at the University of Helsinki are requested to leave their application by using the Employee Login button.

The closing date for applications is19th August 2024 at 23:59 EEST.

We will process applications already during the application period and the position will be filled as soon as a suitable candidate is found.

Further information

About the position:Dr Piret Avila, piret.avila@gmail.com

Recruitment system: HR Specialist Harri Hamara, harri.hamara@helsinki.fi or HR Specialist Mirkka Juntunen, mirkka.juntunen@helsinki.fi

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UKentucky InsectSeasonalAdaptation

Graduate Research Assistantship in Climate Change and Insect Seasonality

Location Department of Entomology University of

Kentucky, Lexington, KY Contact Nick Teets Email: n.teets@uky.edu Phone: (859)-257-7459 Lab website: www.teetslab.com

Description: The Teets Lab at University of Kentucky is seeking a graduate student to conduct research on the evolutionary physiology of seasonality in a globally invasive insect. The student will conduct field work and experiments to determine the extent to which seasonal polyphenisms and overwintering traits are rapidly evolving in spotted wing drosophila (Drosophila suzukii). This NSF-funded project also includes collaborations with the University of Vermont and Northeastern University to conduct population genetics and evolutionary modeling of these overwintering traits. For more information on the Teets Lab, visit the lab website (www.teetslab.com).

Department: The Department of Entomology at University of Kentucky offers excellent graduate training in diverse areas of insect biology. The Entomology graduate program is nationally recognized and is consistently rated as one of the most productive programs at the University of Kentucky, measured by the total number of student publications and presentations. Students from our department go on to have successful careers in a variety of sectors, including academia, industry, government science, and extension, to name a few. The Department of Entomology takes pride in its collegial, collaborative environment that fosters student creativity and independence.

Qualifications: Qualified candidates should hold at least a bachelor's degree in biology, entomology, or a related field. Preference will be given to students with previous research experience, either through completion of a master's degree or undergraduate research. Information on graduate admissions at University of Kentucky can be found at: https://gradschool.uky.edu/admissions. Students from underrepresented backgrounds are strongly encouraged to apply.

Start Date and Compensation: The successful applicant will start between January and August 2025, as mutually agreed upon. The assistantship includes a competitive stipend, tuition, and health coverage.

Application Procedures: Interested applicants should submit a single PDF containing 1) a CV (including GPA), 2) a cover letter detailing research experience, interests, and career goals, and 3) the name and contact information for three references at https://forms.gle/-SshuvR9pAhsi5gRPA. Screening will begin immediately and continue until suitable candidates are found. The successful applicant will also be required to apply to the University of Kentucky Graduate School, although application to the graduate school can come later.

Nick Teets Associate Professor

Department of Entomology University of Kentucky Phone: 859-257-7459 Office: 317 Plant Sciences Building Web: www.teetslab.com Email: n.teets@uky.edu

"Teets, Nicholas M." <n.teets@uky.edu>

UKonstanz Germany HostParasiteCoevolution

PhD position at the University of Konstanz, Germany, working on resistance and host range evolution in an alga-virus model system. Fully funded for 3 years; start date between October & December 2024.

SUPERVISORS: Dr. Eva Lievens (primary), in the lab of Prof. Lutz Becks (secondary)

BACKGROUND: Models of host-parasite coevolution often assume that host-parasite interactions have a simple basis: at every coevolutionary step, resistance mutations in one host gene are countered by resistance-breaking mutations in a corresponding parasite gene. However, empirical data shows that parallel changes in resistance or host range can differ at the mechanistic or genetic levels. How does this affect the trajectory and repeatability of coevolution? Our recent work provides a unique opportunity to investigate this using the alga Chlorella variabilis and its lytic virus PBCV-1. Using highly replicated artificial selection, we generated a panel of algal clones with diverse resistance phenotypes and a panel of virus isolates with diverse resistance-breaking mutations.

PROJECT DESCRIPTION: In the DFG-funded project 'Effects of stochastic resistance and resistance-breaking on host-parasite coevolution', you will use infection assays, growth assays, experimental evolution, and genomics (in collaboration) to investigate: - the diversity of algal resistance: which mechanisms & fitness costs underlie the different resistance phenotypes? - the diversity of viral resistance-breaking: which traits & fitness costs are associated with the different resistance-breaking mutation types? - the consequences of this diversity for further (co)evolution: do the initial resistance phenotype or resistance-breaking mutation constrain the (co)evolutionary trajectory?

REQUIREMENTS: - MSc in evolutionary biology, ecol-

ogy, microbiology, or related fields - interest in core concepts in evolutionary biology and ecology - motivation to do lab research - proficiency in spoken and written English - experience with statistics and R is an advantage - experience working with microbes or host-parasite systems is an advantage

SALARY: To be determined following the scale "E 13 TV-L" at 65%. Starts at ~1800 euro /month post-tax, depending on experience.

CONTEXT: You will work in an engaging and international group that studies eco-evolutionary processes using microbial model systems. For more information, see https://www.limnologie.uni-konstanz.de/en/-ag-becks/ and https://ejplievens.weebly.com/ . We are part of the Department of Biology at the University of Konstanz, a German Excellence University located on the beautiful shores of Lake Konstanz and near the Alps.

TO APPLY: Send applications to eva.lievens@uni-konstanz.de by August 18th 2024 at 23:59 CEST. Applications should be a single pdf containing 1) a cover letter explaining your research interests and experience, 2) a CV, 3) contact information for two references. We welcome applicants of all ages, genders, ethnicities, disabilities, and sexual orientations.

Informal inquiries are welcome; contact eva.lievens@uni-konstanz.de .

Eva Lievens <eva.j.lievens@gmail.com>

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UMelbourne MacroevolAnimalBehaviour

Graduate position: UMelbourne. MacroevolutionAnimalBehaviour. PhD position studying animal architecture at the School of BioSciences, University of Melbourne, Australia.

We are seeking for an enthusiastic PhD student with interest in macroevolution and behaviour. The proposed project looks into the macroevolution of avian nest architecture. There is possibility for fieldwork too, although the project centres on using recent statistical techniques to understand in detail the evolution of avian nest design. Specific topics are flexible and you are encouraged to contribute your own ideas. Experience with R is important and experience with comparative analyses is highly desirable, experience with birds is not required - but interest in the topic is a must :). We are keen to foster a diversity of ideas and perspectives in the lab, so we welcome applicants from under-represented groups.

The University of Melbourne offers Scholarships for international and domestic students and we can discuss other funding opportunities. Melbourne is a vibrant and exciting city to live, and our School is offers a friendly and welcoming environment. https://biosciences.unimelb.edu.au/study/phd-studies-in-biosciences If interested, please send an e-mail before Sept 1st to: iliana.medina@unimelb.edu.au with your CV, a brief statement with your research interests and career path and academic transcripts (these don't need to be official).

Planned start date: January-June 2025 but can be flexible.

Link to our website for more information on our group: https://www.ecomedina.com iliana.medina@unimelb.edu.au

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UOtago NewZealand EvolutionaryBirdGenomics

PhD position in evolutionary genomics of birds at the University of Otago, New Zealand

The New Zealand bird fauna is unique in the world and is a key element of New Zealand's biological heritage. In the absence of terrestrial mammals, birds have evolved to fill their ecological niches. This unusual situation has for example given rise to the world's largest raptor, Haast's eagle, one of the few alpine parrot species in the world, the kea, and the world's only flightless parrot, the kakapo.

The molecular evolution of these adaptations can help us understand how species respond to changing environments in a dynamic world on the genome level.

We are looking for a PhD student to study the functional genomic basis of adaptations such as island gigantism, flightlessness, and niche specialization in a range of New Zealand bird species. The ideal candidate will have a background in molecular ecology, evolutionary biology, bioinformatics or genome data analyses.

The position is contingent on the candidate obtaining a PhD scholarship, either from the University of Otago (please check eligibility: https://www.otago.ac.nz/-postgraduate-study/scholarships/phd) or alternative international sources. Applications are invited from New Zealand and international candidates. We strongly encourage Maori and Pacific Island candidates to apply, and additional scholarship options are available for these candidates.

Selection process: Please apply by email with a cover letter and your CV (including grade point average or comparable measure from your qualifying degree) to A/Prof. Michael Knapp (michael.knapp@otago.ac.nz) by 02/August/2024. We will select the best applicant soon after this date and support them in their application for an Otago PhD scholarship. Starting dates are flexible, with an expected start date in early 2025.

About Otago: The University of Otago is one of the most research-intensive universities in New Zealand with a world-class reputation in the life sciences. It provides an environment that allows its students to undertake internationally recognized research, in a diverse and vibrant postgraduate environment and has been ranked as one of the most beautiful campuses in the world. The PhD student will be hosted by the Departments of Anatomy (Primary supervisor A/Prof. Michael Knapp) and Zoology (co-supervisors A/Prof. Nic Rawlence and Dr Pascale Lubbe), which are diverse and research-oriented departments.

Prof. Michael Knapp Associate Professor in Biological Anthropology Department of Anatomy University of Otago Dunedin New Zealand

michael.knapp@otago.ac.nz

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UPalermo ElasmobranchEvolution

Dear All,

We would like to share the opportunity of the interesting PhD position now available on "Integrated approaches to ecosystemic diversity: genetics, ecology and advanced modelling applied to elasmobranchs".

The application for this PhD scholarship is now open at University of Palermo within the PhD program in Biodiversity (see leaflet attached and below for more indications on how to apply), with starting date on the 1st November 2024.

The PhD candidate will be working in a wide network focusing on elasmobranchs' conservation and monitoring, which is enabled by the starting of LIFE PROMETHEUS Project < https://www.univpm.it/-Entra/Universita_Politecnica_delle_Marche_Home/-LIFE_PROMETHEUS/L/1 >.

The PhD candidate will be dealing with the improvement of the state of knowledge on elasmobranchs in the Mediterranean Sea and the identification, monitoring and protection of their Essential Fish Habitats. The PhD candidate will have the opportunity to improve her/his skills in the field, in the lab and in data analyses, all finalised to the long-term conservation of this iconic taxon. Please find attached a more detailed description of the position.

Previous experience with coding and data analysis (including molecular taxonomy, metabarcoding and modelling) will be favourably evaluated.

Interviews will be held in Italian, but the English proficiency will be assessed. The documents for the application can be submitted in English.

Deadline for applications is AUGUST 2, 2024 How to apply? Please visit https://www.unipa.it/didattica/-dottorati/dottorato-xl/ where all documents and info are provided in EN and IT, including:

1. Call for application < https://-www.unipa.it/didattica/dottorati/.content/-documenti/Dottorato40ciclo/bando_40/-DR_6538_2024_Bando_dottorati_XL_ciclo_2024_2025_ENG.pdf > 2. Application guide < https://www.unipa.it/-didattica/dottorati/.content/documenti/-Dottorato38ciclo/bando/application_guide_38.pdf >

Then follow "Online application form", which will bring you to the UNIPA Student's Portal < https:/-/immaweb.unipa.it/immaweb/home.seam > where registration is needed to proceed further.

Our position on "Integrated approaches to ecosystemic diversity: genetics, ecology and advanced modelling applied to elasmobranchs" is included in the PhD in BIODIVERSITY described in the Sheet 32 of the document PhD courses annexes 1-33 < https://www.unipa.it/didattica/dottorati/.content/-documenti/Dottorato40ciclo/bando_40/_Schede-1-33_dottorato_40.pdf > (from page 230 onwards in the document). The PhD in BIODIVERSITY includes 56 available positions with scholarship, our position on "Integrated approaches to ecosystemic

diversity: genetics, ecology and advanced modelling applied to elasmobranchs" is identified by the code [BIODIV.UNIBO]

For more information please contact us at alessia.cariani@unibo.it; alice.ferrari6@unibo.it Hoping to reach your interest We thank you for your kind attention Alessia Cariani, Alice Ferrari

Alessia Cariani Laboratory of Genetics & Genomics of Marine Resources and Environment (GenoDREAM) Dept. Biological, Geological & Environmental Sciences (BiGeA) Alma Mater Studiorum - Universitài Bologna Via Sant'Alberto 163, 48123 Ravenna, Italy Ph. +39 0544937321 - Mobile +39 320 6951145 - Fax +39 0512086327 skype contact: alessiacariani

-> Please note that I am currently working at reduced commitment, it might affect my email processing <-

Alessia Cariani <alessia.cariani@unibo.it>

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UVermont DrosophilaEvolution

The Nunez Lab invites applications for two PhD student openings (the starting date would be in the Fall of 2025). The students would contribute to two active projects in the field of Drosophila population genomics.

The first project is part of an NSF-funded study seeking to characterize rapid seasonal evolution in the invasive insect Drosophila suzukii.

The second project will study the neurological basis of temperature-dependent feeding phenotypes as a function of the presence or absence of the seasonal inversion, In(2L)t, in Drosophila melanogaster.

Both these projects will capitalize on, and make contributions to, the DEST dataset (https://dest.bio/).

The complete job ad for these opportunities can be found here: www.jcbnunez.org/2024-phd-openings cheers

Jcbn

Joaquin C. B. Nunez, Ph.D. (he/him) Henderson-Harris Fellow & Principal Investigator Department of Biology University of Vermont Marsh Life Sciences, Rm. 337B 109 Carrigan Drive, Burlington, VT 05405 802-656-8286 (office) Joaquin.Nunez@uvm.edu

Nunez Lab Website: https://www.jcbnunez.org Drosophila Evolution in Space and Time: https://dest.bio Biological Data Science: https://www.uvm.edu/quest Joaquin.Nunez@uvm.edu

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VrijeU Brussels SexChromosomeGenomics

A 6-year fully funded PhD (research+teaching) fellowship on 'Evolution and genomics of sex chromosomes and sex determination in frogs' is available at Vrije Universiteit Brussel (Brussels, Belgium)

We are seeking a PhD fellowship position, funded by Vrije Universiteit Brussel and ERC Starting Grant, to join the Evolutionary Genomics of Sex lab (https://www.wmalab.com) in the Biology Department (https://we.vub.ac.be/en/biology-department) at the Vrije Universiteit Brussel. As the teaching is involved in bachelor Biology courses, so Dutch speaking is required for this position.

Job vacancy link:

https://jobs.vub.be/job/Elsene-Doctoraatsbeurs-Biologie/1085234101/ Research topics in the Ma lab:

We are interested in how sex chromosomes evolve, and why the evolutionary trajectories of sex chromosomes differ dramatically across eukaryotes. For example, sex determination is very labile in reptiles, amphibians and fishesbut highly stable in mammals and most birds. We study the drivers of sex chromosome recombination suppression, the genomic signature, and the evolution and genomic basis of sex determination and endosymbionts manipulation of host reproduction. We integrate comparative and functional genomics, transcriptomics, molecular genetics, artificial selection, and fieldwork sampling to reveal the genomic signature and genetic architecture of sex.

The PhD topics are covered:

Genetic mechanism of frog sex determination

Evolution of rapid birth and death of sex chromosomes

Role of repeats in the evolution of sex chromosomes and genomes

You will gain experience in:

Field sampling (Europe/Asia/Central America)

Molecular genetics

Comparative genomics

State of the art OMIC approaches (DNA sequencing, RNA sequencing RAD sequencing)

The ideal candidate:

Dutch proficiency (or at B2/C1 level)

Has background in evolutionary biology

Is highly motivated by evolutionary questions

Is eager/passionate to learn (new) genetic/genomics techniques/analysis Has great communication skills and is a team player

Shows initiative to drive the project

Competitive offer:

Brussels is beautiful, affordable & highly cultural diverse

6-year full funding

Monthly net salary euro 2500

Free public transportation (home to campus)

Social welfare package Pension contribution

Pension contribution

Application files:

a cover letter expressing your interest, your qualifications for the position and your future career goals

your CV

a copy of your master degree diploma and master transcripts

names and contact information of 2-3 professional references

Application deadline:

15/July/2024

Please applyvia the VUB link:

https://jobs.vub.be/job/Elsene-Doctoraatsbeurs-Biologie/1085234101/ Informal scientific enquiries can be emailed to Wen-Juan Ma (wen-juan.ma@vub.be).

Best regards,

Wen-Juan Ma, PhD

Prof. Dr. Wen-Juan Ma Assistant Professor Evolutionary Genomics of Sex Lab Research Group of Ecology,Evolution and Genetics (bDIV) Biology Department Vrije Universiteit Brussel Pleinlaan 2 - 1050 Brussels, Belgium Office F5.60 T +32 (0)2 629 3416 http://www.wmalab.com https://bdiv.research.vub.be/en/home-0 https://-academic.oup.com/jeb/pages/why-publish Wen-Juan Ma <Wen-Juan.Ma@vub.be>

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Jobs

CornellU PlantEvolution

Faculty Position Available: Plant Ecology Department of Ecology & Evolutionary Biology, Cornell University

Position: Assistant Professor, Tenure-Track

Location: Ithaca, NY. The academic home for this position is the Department of Ecology and Evolutionary Biology in the College of Agriculture and Life Sciences (CALS), housed on the Ithaca campus of Cornell University.

Description and Responsibilities: The Department of Ecology and Evolutionary Biology at Cornell University seeks to hire a plant ecologist with expertise in field biology and natural history.The position is a 9-month, full-time, tenure-track faculty position at the Assistant Professor level and involves 50% research and 50% teaching responsibilities. The successful candidate should address globally relevant conceptual questions in ecology and evolutionary biology and integrate field biology with experimental approaches. Priority will be given to research programs addressing questions about global change such as biodiversity loss and climate change. Specialty areas may include (but are not limited to) population structure and adaptation, community and ecosystem interactions, plant conservation and rarity, or Eco physiological responses to climate change. The candidate will be expected to teach one of the team-taught introductory ecology or evolutionary biology courses and to develop a specialty course in an area of interest.

Qualifications: The successful candidate will have a Ph.D., and preferably postdoctoral experience, in ecology and evolutionary biology or a related field. The applicant should demonstrate scholarly excellence, scientific productivity, and showcase a collaborative outlook. An ability to teach and engage students in plant ecology research and coursework is required. The successful candidate should also demonstrate a record of inclusivity and public engagement through their professional contributions in keeping with Cornell's efforts to promote diversity and equity in our community.

Starting Dates and Applications: The anticipated starting date is July 1, 2025, or as negotiated. Qualified applicants should submit: 1) a cover letter of up to two pages summarizing background, vision, and relevant qualifications, 2) a Curriculum Vitae, 3) a research statement (two pages) outlining experience and scholarly goals, 4) a teaching statement (two pages) outlining experience and teaching goals, 5) a statement supporting diverse communities, 6) a page listing citations/DOIs for three representative publications, and 7) contact information for three references. The statement supporting diverse communities can be a stand-alone document (preferred, two pages), or the information can be embedded in the other components of the application materials outlining how, through research, teaching, service, mentoring, extension, and/or outreach, the candidate has and will contribute to support Cornell's historical mission of "any person Â any study." Materials should be submitted online to https://academicjobsonline.org/ajo/jobs/27879. Review of applications will begin September 9, 2024, and continue until the position is filled.

Inquiries may be directed to:

Dr. Andre Kessler, Search Committee Co-Chair Email: ak357@cornell.edu

CALS hiring range for position: Assistant Professor: $79,400 - $135,000

Cornell University offers a competitive salary and benefits package. Support for start-up costs will be available. Salary is commensurate with experience.

The College of Agriculture and Life Sciences (CALS) is a pioneer of purpose-driven science and Cornell University's second largest college. We work across disciplines to tackle the challenges of our time through world-renowned research, education, and outreach. The questions we probe and the answers we seek focus on three overlapping concerns: We believe that achieving next-generation scientific breakthroughs requires an understanding of the world's complex, interlocking systems. We believe that access to nutritious food and a healthy environment is a fundamental human right. We believe that ensuring a prosperous global future depends on the ability to support local people and communities everywhere. By working in and across multiple scientific areas, CALS can address challenges and opportunities of the greatest relevance, here in New York, across the nation, and around the world.

Cornell University seeks to meet the needs of dual career couples, has a Dual Career program, and is a member of the

Upstate New York Higher Education Recruitment Consortium to assist with dual career searches including positions available in higher education in the upstate New York area.

Cornell University is an innovative Ivy League and Land-grant university and a great place to work. Our inclusive community of scholars, students, and staff impart an uncommon sense of larger purpose and contribute

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ILIM UIBK Austria MeasurementTechnician

To support and complete our team, we are seeking a motivated Measurement and Control Technician,

The position is full-time and permanent at the Research Department for Limnology, Mondsee

Your tasks: - Establishment and maintenance of experimental facilities in aquatic ecology as part of a team - Design, manufacture and use of measurement and control mechanism (e.g. for temperature, oxygen, light) - Training of students and staff on the use of experimental units - Water sampling and technical support of scientific projects - Support with maintenance of building services - Safety officer, support with fire protection tasks

Your qualifications: - Comprehensive and completed technical training (e.g. technical bachelor's degree, technical diploma, BTA training, relevant professional experience) - Skilled craftsmanship - Willingness to train as a boat driver - IT skills and knowledge of German and English are of advantage - Independence - Communicative and team-oriented personality

Our offer: We offer an exciting working environment! The team at the Research Department for Limnology, located directly on Lake Mondsee, researches fundamental questions on the evolution of species and the ecology of lakes in times of global change (https://-www.uibk.ac.at/limno/index.html.en).

The university offers flexible working hours, family-friendly working environment, attractive training opportunities and courses, a paid lunch break, a meal allowance, public transport ticket and much more! (https://www.uibk.ac.at/en/career/additional-benefits/).

Mondsee, the Salzkammergut region and the nearby city of Salzburg also offer a wide range of leisure activities, including numerous sporting and cultural activities.

For this position (category IIIb), a minimum gross salary of euro 2,959.00/month (14 times) is stipulated in the collective agreement. The salary may increase with relevant professional experience. As part of this position, training as a safety officer, fire prevention officer and boat driver is possible.

Interested? If you are interested, please apply directly via the job portal of the University of Innsbruck (https://lfuonline.uibk.ac.at/public/-karriereportal.details?asg_id_in=14324). For any questions and/or help, contact office-ilim@uibk.ac.at

We are looking forward to receiving your application by 08.07.2024!!

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

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KalahariResearchCentre ResearchAssistant

We are seeking a research assistant to help capture Damaraland mole-rats at the Kalahari Research Centre. The project was started in 2013 and explores a variety of topics including life history, group demographics, and cooperative behaviour. We will expand upon past work to better understand individual contributions to helping behaviour. Our current project will utilize miniaturized accelerometer devices and RFID technology to determine which individuals contribute to cooperative behaviours such as burrow guarding and tunnel building, and how seasonal climate can affect these contributions. The assistant will gain valuable field work experience including use of accelerometers and RFID technology, animal trapping and handling, biological sample collection, and data entry and database skills.

Responsibilities

- Assisting capture of mole-rats

- Daily husbandry of captured mole-rats

- Data collection and entry (GPS data, morphometric data, biological samples, etc)

- Maintain field equipment

Requirements:

- BSc degree (biology, ecology, zoology, etc)

- Field work experience (in Africa and remote areas preferably)

- Animal handling skills

- Physically fit, capable of frequent digging and kneeling

- Enthusiastic and willingness to work potentially long days (> 8 hrs)

- Works well independently and in small teams (2-3 people)

- Driver's license

- International applicants must be willing to apply for a long term visa to South Africa

Compensation: food and accommodation provided plus a monthly stipend

*Start Date: *mid-August to mid-September

Duration: minimum commitment 6 months, preferably 12 months

The applicant will live at the Kalahari Research Centre, home to the Kalahari Meerkat Project and other long term behavioural studies (https://-kalahariresearchcentre.org/). The research site is remote, and assistants will be living and working around South African and international researchers and graduate students. The applicant must be willing to live in this vibrant community of 30-40 researchers. As a result, this is an excellent opportunity for networking and learning.

Please send your CV, a short letter of interest (max 1 page), and contact details for 2 people to act as references to *Dr Kyle Finn (kyletfinn@gmail.com)* and *Dr Shay Rotics (shay.rotics@gmail.com)*. Deadline is 1 August 2024. The position is open until filled.

Kyle Finn <kyletfinn@gmail.com>

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KBS MichiganStateU Tech SwitchgrassEvolution

The Great Lakes Bioenergy Research Center (GLBRC) and Lowry Lab at Michigan State University are seeking to hire a seasonal field technician to work at the Kellogg Biological Station. The successful candidate will participate in field research focused on understanding the mechanisms of abiotic and biotic stress tolerance evolution in the bioenergy crop switchgrass (Panicum virgatum) and how those stresses impact feedstock deconstruction and bioenergy conversion. The work will be 100% located at the Kellogg Biological Station in western Michigan and last through January 2025. The primary duties of the job will include: Collecting data from plants in the field, digging up plants for propagation, preparing supplies for harvest in October and November, conducting various aspects of switchgrass harvest, drying/weighing samples after harvest, and entering data. The successful candidate will be compensated at a rate of $22 per hour.

Please apply through the following link:

https://careers.msu.edu/en-us/job/520119/-professional-aide David Lowry Professor Department of Plant Biology Associate Director Plant Resilience Institute Michigan State University http:/-/davidbryantlowry.wordpress.com/ "Lowry, David" <dlowry@msu.edu>

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OsnabrueckU Germany ResAssist MicrobialEvol

OsnabrueckU Germany, ResAssist, Microbial evolution

The Department of Ecology at the School of Biology/ Chemistry is seeking to appoint a

Research Assistant (m/f/d) (salary grade E 13 TV-L, 100 %)

to commence work on January 1st, 2025. The position will be filled permanently.

Your Duties:

- Participation in research in the field of microbial ecology and evolution

- Your research interests should complement the ones of the Department of Ecology.

- Possible areas of research are: (I) evolution and maintenance of metabolic cooperation, (II) stability and dynamics of ecological interactions, (III) analysis of ecological interaction networks, (IV) emergence of functional properties, (V) bacterial multicellularity and individuality, (VI) synergistic coevolution

- Possible methodological focuses: quantitative analyses of microbial systems at the cell, population, or community level (e.g., flow cytometry, coculture experiments, etc.), molecular microbiology, microfluidics, high-resolution fluorescence microscopy, mass spectrometry

(e.g., analysis of metabolic fluxes), synthetic ecology, experimental evolution, genomics

- Support other members of the working groups with statistical questions (experimental design, analysis of large and complex data sets)

- Acquisition of third party funds

- Supervision of scientific projects of students (bachelor- and master- level as well as doctoral researchers)

- Participation in planning and execution of undergraduate and advanced teaching courses that cover the entire breath of the field of ecology

- Conducting of ecological excursions

Requirements:

- Completed master's degree (or equivalent)

- Completed doctorate or comparable qualification in biology or related fields

- Research focus that sensibly complements the work of the Department of Ecology

- Solid knowledge of quantitative working methods and statistical analysis procedures

- Teaching experience in an academic environment

- Ability to teach in English and German

Additional Qualifications:

- Sound knowledge of ecological and evolutionary biology concepts and theories

- Basic knowledge of programming languages (e.g. Python, R)

- The ability to develop and analyse theoretical models (e.g. population dynamics, individual-based models)

- Practical experience in generating and analysing genomic, transcriptomic, or proteomic datasets

- Ability to work in an interdisciplinary and international team

- Structured and independent working style

- High level of motivation and interest

We offer:

- Possibility to establish your own research group and establish your own research topic

- Opportunity for a habilitation

- Interdisciplinary and international research environment

- Use of the state-of-the-art scientific infrastructure in the School of Biology/ Chemistry (CellNanOs)

- Cooperation with members of the Department of Ecology and the School of Biology/ Chemistry

- Flexible working hours to balance private and professional life

- Sports and health programmes

- Extensive offers for advanced training

- Live and work in the vibrant and liveable city of Osnabrï¿½ck

- Part-time employment is possible.

Osnabrï¿½ck University is a family-friendly university and is committed to helping working/studying parents balance their family and working lives.

Osnabrï¿½ck University seeks to guarantee equality of opportunity for women and men and strives to correct any gender imbalance in its schools and departments.

If two candidates are equally qualified, preference will be given to the candidate with disability status.

Please submit your application by the August 25th, 2024 as one PDF file that includes the usual documents (i.e. letter of motivation, CV incl. teaching experience, current and planned research projects, publication list, copies of certificates) CODE WDï¿½2024 via email to the Dean of the School of Biology/ Chemistry (Email: bewerb-bio@uni-osnabrueck.de).

Please contact Prof. Dr. Christian Kost (email: christian.kost@uni-osnabrueck.de, homepage: kost-lab.com) for further information.

We are very much looking forward to receiving your application.

Christian Kost <christiankost@gmail.com>

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OsnabrueckU Germany SynergisticCoevolution

OsnabrueckU_Germany, SynergisticCoevolution

The Department of Ecology at the School of Biology/Chemistry is seeking to appoint a Research Assistant (m/f/d)(salary grade E 13 TV-L, 65%) to commence at the earliest possible date. The position is fully funded for three years.

Background: A major challenge in evolutionary biology

is to understand how interactions between different organisms shape the process of coevolution. While this issue is well-understood for antagonistic interactions (e.g. between parasites and their hosts), our knowledge on synergistic coevolution is rather poorly developed. Specifically, it remains unclear how ecological interactions determine the evolutionary dynamics of coevolving populations and thus the mutational trajectories of the individuals involved. This includes in particular the question whether and how synergistic coevolution affects the rates of molecular evolution and phenotypic diversification within interacting consortia. This project will address these issues by taking advantage of a previously performed coevolution experiment, in which a cooperative mutualism evolved between two genotypes of the bacterium Escherichia coli.

In collaboration with Dr. Alexander Herbig (MPI for Evolutionary Anthropology, Leipzig), both isolated strains and whole populations will be longitudinally sequenced to unravel the order and distribution of mutations that arose during synergistic coevolution. In addition, isolated and genetically reconstructed strains will be subjected to carefully designed coculture experiments to clarify how individual mutations affect the evolutionary dynamics of interacting genotypes on both a cell- and a population-level. In this way, the experimental tractability of the focal model system will help to identify the underlying eco-evolutionary mechanisms and thus help to understand other types of mutualistic interactions, in which similar analyses are frequently not possible.

Your Duties: - Participate in the DFG-funded project "Eco-evolutionary causes and genomic consequences of synergistic coevolution " - Perform coculture and coevolution experiments with different bacterial strains - Reconstruct mutations in different genetic backgrounds - Conduct growth experiments to analyse fitness consequences of mutations - Determine the cooperativity of bacterial strains by quantifying their amino acid production rates (LC-MS/MS) - Spatio-temporal analysis of bacterial aggregates using tools of microfluidics and fluorescence microscopy - Flow cytometric analyses - Close collaboration with cooperation partners Dr. Alexander Herbig (Max Planck Institute for Evolutionary Antrhropology) and Dr. Alexander Grünberger (Karlsruhe Institute of Technology) - The successful candidate will have the opportunity to work towards a PhD

Requirements: - Completed degree (M.Sc. or comparable) in biology or a related field - Solid practical experience in microbiological techniques and molecular biological methods - Excellent command in written and spoken English

Additional Qualifications: - Sound knowledge of ecological and evolutionary concepts and theory - An excellent university degree - Creative way of working - Strong motivation and curiosity - Ability to work in an interdisciplinary team - Structured and independent way of working - Experience in using high-resolution fluorescence microscopy - Knowledge of quantitative working methods and statistical analysis procedures - Working knowledge in using programming languages (e.g. Python) - Ability to develop and analyse theoretical models (population dynamics, individual-based models) is a plus

We Offer: - An exciting and highly topical research project - Working in an interdisciplinary and international research team - Collaboration with other partner groups - Participation in the excellent graduate education programs at Osnabrück University (ZePrOS, IRTG) - Access to the state-of-the-art research infrastructure at the School of Biology/Chemistry (CellNanOs) - Live and work in the vibrant and liveable city of Osnabrück

Osnabrück University is a family-friendly university and is committed to helping working/studying parents balance their family and working lives. Osnabrück University seeks to guarantee equality of opportunity for women and men and strives to correct any gender imbalance in its schools and departments. If two candidates are equally qualified, preference will be given to the candidate with disability status.

Please submit your application (including a letter of motivation, CV, copies of certificates) by 28.07.2024 as one PDF file via email to the Dean of the School of Biology/Chemistry (Email:bewerb-bio@uni-osnabrueck.de).

Please contact Prof. Dr. Christian Kost (email: christian.kost@uni-osnabrueck.de, homepage:kostlab.com) for further information. We are very much looking forward to receiving your application.

Christian Kost <christiankost@gmail.com>

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PennslyvaniaStateU EvolutionaryGenomics

JOB DESCRIPTION AND POSITION REQUIREMENTS:

The Department of Biology in the Eberly College of Science (https://science.psu.edu/bio) at The Pennsylvania State University seeks applicants for an Assistant/Associate Level Tenure Track faculty position in the broad area of 'Evolutionary Genomics.'

Our department has key strengths in Evolutionary Genomics/Genetics, Ecology, Plant Biology, Neuroscience, Coral Biology, Microbiome Science, and Infectious Disease Dynamics. Successful candidate's research may include the use of wet-lab, computational and/or theoretical approaches. The life sciences at Penn State are highly interdisciplinary and we therefore seek candidates with an enthusiasm for collaborations across other fields housed in diverse departments/colleges/institutes. Some areas may include chemistry, math, biochemistry, statistics, engineering, medicine, health and human development, social sciences, data science/machine learning.

The successful applicant is expected to develop and/or maintain an independent, externally funded and internationally recognized research program, leading to advances in their field; to provide excellent and instruction to undergraduate and graduate students in the life sciences; and to contribute active service to the department, college, university, professional community, and the public.

Applicants at the Assistant Professor level should have a Ph.D. and postdoctoral experience; applicants at the Associate Professor level should also have a demonstrated record of research and mentoring within their field. The successful applicant will integrate into Penn State's broad-based life science research community and contribute to the Department of Biology's teaching mission.

The Huck Institutes of the Life Sciences at Penn State provide opportunities to participate in multiple interdepartmental and interdisciplinary research centers and graduate programs as well as outstanding core facilities.

This position features a competitive start-up package. Applications must be submitted electronically and include a cover letter that highlights graduate/postdoctoral/faculty scientific accomplishments, goals or vision for your research, teaching, and service at Penn State, and qualifications that make you well-suited to achieve these goals. You will also submit: 1) a complete curriculum vitae; 2) a statement of research interests and plans including a list of three recent and key published papers or preprints; 3) a statement of teaching interests, skills, experience, and philosophy; 4) a diversity statement that describes a track record or commitment to equity, diversity, and inclusion at the teaching, research, or professional level; and 5) contact information for at least three professional references. Review of applications will start on September 7, 2024.

The Pennsylvania State University is committed to and accountable for advancing diversity, equity, and inclusion in all its forms. We embrace individual uniqueness, foster a culture of inclusion that supports both broad and specific diversity initiatives, leverage the educational and institutional benefits of diversity, and actively engage all individuals to help them thrive through mentoring and community building. We value inclusion as a core strength and an essential element of our public service mission.

To apply, please visit: https://psu.wd1.myworkdayjobs.com/PSU_Academic/job/Penn-State-University-Park/Evolutionary-Genomics-Tenure-Track-Faculty-Position-in-Biology-Department_REQ_0000057292-1 Thank you, Kendra 814. 863.4530 Chat with me on teams!

"Immel, Kendra" <kai111@psu.edu>

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UBath Six MicrobiomesMicrobialEvolution

Theâ€Department of Life Sciencesâ€at the University of Bath is recruiting academics working on various aspects of microbiome research. There is a total of six positions that cover all ranks, with all positions being open to researchers working on topics linked to evolutionary biology and ecology.

The full set of posts are described here: https://www.bath.ac.uk/campaigns/join-the-department-of-life-sciences/ They include:

Two Assistant/Associate Professorships (Lec-

turer/Senior Lect.): One advertised as â': https://-www.bath.ac.uk/jobs/Vacancy.aspx?id%693 and one as âmicrobiomics': https://www.bath.ac.uk/jobs/-Vacancy.aspx?id%715 Both of these positions explicitly include research linked to evolution, community ecology, biodiversity and conservation.

Two Prize Fellow positions working on microbiome related research: https://www.bath.ac.uk/jobs/-Vacancy.aspx?id%618 These positions are for a three-year fixed term, but successful candidates will be offered permanent positions. So they have some similarity to tenure track posts.

Prize fellows are eligible to apply for externally funded fellowships and grants. They may also supervise PhD students.

Professor in Environmental Microbiomics: https:/-/www.bath.ac.uk/jobs/Vacancy.aspx?id%612 GSK Chair (Professor) in Pharmacomicrobiomics: https://-www.bath.ac.uk/jobs/Vacancy.aspx?id%691

Jason Wolf <jbw22@bath.ac.uk>

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UEdinburgh QuantitativeGenomics

Dear colleagues,

We are seeking to appoint a highly successful scientist in the broad area of Quantitative Biology, with a focus on Quantitative Genomics applied to breeding and animal genetics.

The Roslin Institute's mission is to achieve sustainable agriculture, control diseases, and enhance health. The Quantitative Biology division seeking this appointment is spearheading the mission through data-driven innovation, including theoretical and applied genomics. To this end, we host a collaborative and diverse community of group leaders, researchers, and students working towards the mission.

This appointment will be made at the Professor level or Senior Lecturer / Senior Research Fellow level.

What we offer: * To join the Quantitative Biology division https://www.ed.ac.uk/roslin/people/quantitative-biology that comprises staff and students that make significant contributions to understanding of complex traits genetics in livestock, plants, humans, model organisms and companion animals, and how to leverage this understanding in managing and improving these populations. * Core funding to appoint a staff scientist in your team as well as an annual consumable allowance and the opportunity to bid for intramural funding from a variety of sources. * A competitive salary in UE10 band for Professorial appointment, or UE09 band for Senior Lecturer / Senior Research Fellow appointment https://www.ed.ac.uk/human-resources/pay-reward/reward-calculator .* Additional comprehensive Staff Benefits, such as a generous holiday entitlement, a defined benefits pension scheme, staff discounts, family-friendly initiatives, and flexible work options. Check out the full list on our staff benefits page and use our reward calculator to discover the total value of your pay and benefits. * Situated in the picturesque setting of the Pentland hills, we are a short commute from the city of Edinburgh, consistently ranked as one of the most desirable places to live in the UK.

Details of the post and how to apply can be found at: https://elxw.fa.em3.oraclecloud.com/-hcmUI/CandidateExperience/en/sites/CX_1001/job/-10950?utm_medium=jobshare Deadline: 14th August 2024

Should you have any questions, please do not hesitate to contact us: * Albert Tenesa (albert.tenesa@ed.ac.uk) * Andrea Wilson (andrea.wilson@roslin.ed.ac.uk) * Gregor Gorjanc (gregor.gorjanc@roslin.ed.ac.uk)

With regards!

University of Edinburgh Gregor Gorjanc, PhD

The Roslin Institute Professor & Royal Society Industry Fellow

Easter Bush @GregorGorjanc@twitter.com < https://-twitter.com/GregorGorjanc >

EH25 9RG @gregorgorjanc.bsky.social < https://-fediscience.org/@GregorGorjanc >

Scotland, UK www.ed.ac.uk/roslin/highlanderlab 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.

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

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UlmGermany EcosystemResilience

Ulm University is recruiting a Professor of Ecosystem Resilience to join the Institue of Evolutionary Ecology and Conservation Genomics.

The research of the Institute < https://www.uni-ulm.de/nawi/evolutionary-ecology-and-conservation-genomics/ > (Head: Prof. Sommer) is located at the interface of evolutionary ecology, genetics and functional biodiversity research and aims to understand the processes that drive and constrain adaptive evolution to maintain the health of wildlife and ecosystems. To strengthen these goals, a person with outstanding scientific qualifications and international visibility in the research area of ecosystem resilience (with a zoological focus) is sought. The candidate should taxonomically record species abundance patterns in the context of land use or climate changes and investigate the complex relationships between biodiversity and the environment through modeling and simulations at different spatial and temporal scales. The professorship is expected to play an integrating role within the research focus "Stress and Resilience of Biological Systems < https://www.uni-ulm.de/en/nawi/department-of-biology/science-research/research-focus/ >", and be open to collaborations on the thematic foci (www.uni-ulm.de/forschung) of the Department of Biology, and the Faculties of Natural Sciences and Medicine.

In teaching, the professorship will be involved in the Bachelor's and Master's degree programs in Biology, particularly in the areas of zoology, animal biodiversity and bioinformatics. Teaching is conducted in German and English. Participation in the academic self-administration of the faculty is required.

Employment requirements are completed university studies as well as teaching aptitude, a doctoral degree and further pertinent scientific achievements (ç 47 LHG).

To apply and for more information, please follow this link

https://stellenangebote.uni-ulm.de/jobposting/-71ff5199e7d7ea8562bb8ab6735df80ea8d8b489ï ¿¼

Lena Wilfert <lena.wilfert@uni-ulm.de>

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UMaine LabManager WildlifeDiseaseGenetics

Title: Wildlife Disease Genetics Laboratory Manager
Location: University of Maine, Orono

A laboratory manager position is available in the Wildlife Disease Genetics Laboratory < https://-kamathlab.weebly.com/ > at the University of Maine, under the direction of Dr. Pauline Kamath. The position will be responsible for the daily operation of a specialized molecular and infectious disease laboratory. This will involve overseeing and performing sample preparation, analysis, and assays, as well as provide field and administrative support for several ongoing projects in the research group. The successful candidate will also mentor students in independent research and have the opportunity to lead analyses integrating genetic and ecological data to answer research questions focused in the field of wildlife disease ecology and evolution.

Please see a full description of the position, desired qualifications, and application instructions at the following link:

https://fa-ewca-saasfaprod1.fa.ocs.oraclecloud.com/-hcmUI/CandidateExperience/en/sites/CX_1/job/35/-?utm_medium=jobshare Pauline L. Kamath, Ph.D. Associate Professor of Animal Diseases Animal and Veterinary Sciences School of Food & Agriculture 5735 Hitchner Hall, Rm 342 University of Maine Orono, ME 04469-5735 Phone: +1 207-581-2935 Email: pauline.kamath@maine.edu Website: https:/-/umaine.edu/foodandagriculture/kamath2/ Pauline Kamath <pauline.kamath@maine.edu>

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UMichigan FishCollectionManager

The Department of Ecology and Evolutionary Biology (EEB)is seeking a Collection Manager for the Museum of Zoology (UMMZ) Fish Division, located at the new state of the art Research Museums Center (RMC)in Ann Arbor, Michigan.The UMMZ develops and maintains

zoological collections explicitly for use in research and education, benefiting science, society, and the university at large. The scientific role of the UMMZ is to train students and engage in systematic biology and biodiversity studies. These broad and overlapping fields entail the discovery and study of the diversity of organisms, their evolutionary relationships, and the processes that originate biodiversity. EEB has an outstanding, diverse and collaborative group of researchers in evolutionary biology,biodiversity science, and ichthyology.We are looking for an outstanding individual to become the Fish Collection Manager and join the team of other curators and collection managers at the UMMZ and Herbarium, as well as other researchers at the University of Michigan.

The UMMZ Fish Collection is worldwide in its geographic scope and one of the largest of its type, including more than 200,000 lots and 3.4 million specimens representing 98% of fish orders. The collection is particularly strong in North American, Neotropical, African and Southeast Asian freshwater holdings. Historical collections date back to the early 20th century or earlier and include irreplaceable samples from North and Central America, Asia and Madagascar.

We seek candidates with a strong commitment to a vision of the Fish Collection as part of a museum community driven by fostering growth, study and sharing of natural history collections, as well as training of the next generation of biodiversity scientists and collections professionals. The collection and its personnel are a key resource driving and supporting research and education within the University and the broader ichthyological community, nationally and internationally.The position offers opportunities for mentoring and career development, including limited research within the context of the Fish Division curatorial priorities.

Responsibilities:

1.Growth, Maintenance and Digitization (GMD) of the fish collections, including fluid, cleared-and-stained, skeleton specimens, tissue samples, and ancillary collections such as paper archives, field notes, geographic and environmental data, and digital assets such as photography, X-rays, and micro CT scans. Activities may include organizing and participating in field expeditions (including international collecting), coordinating and contributing directly to digitization efforts, as well as writing collection-based grants to support the fish collection.

2.Working with faculty curators to develop and implement policies, standards, and procedures. This involves, as necessary, developing standard operating procedures for acquisition, accessioning, databasing, archival, and use of new or emerging genomic, digital resources, and other ancillary collections. Reviewing, updating, and enhancing the fish collections management plan.

3.Accessioning and cataloguing of new specimens, tissues, and ancillary collections into the collection and the electronic database. This activity includes coordinating curatorial priorities with faculty curators, and the daily management of staff workers, work-study students, graduate curatorial assistants and other personnel.

4.Provide documentation for the collection, including cataloging, updating database records, inventorying, and enhancing documentation through digitization. Improve specimen metadata, such as through photography, georeferencing, and linking with host specimen records. Respond to requests for information about the collection. Share and routinely maintain collection records through external repositories

5.Support of and coordination with faculty curators, student researchers, and visiting collaborating researchers to plan and develop research projects utilizing the research collections and/or enhance collection resources.

6.Maintenance and growth of the rapidly growing fish genomic resources in the RMC Liquid Nitrogen Biorepository. This activity involves the accessioning of new samples, database cross-referencing to voucher specimens, development, and maintenance of database records on genomic resources in the Fish Division.

7.Coordinate and process inter-departmental and inter-institutional loans and exchanges.Activities include the packing and unpacking of loans (specimens and tissues) and securing state, federal, and international permit requirements when appropriate and in consultation with the museum's registrar, as well as the electronic exchange of digitized information. Facilitating the establishment of Memoranda of Understanding or Material Transfer Agreements among institutions for loans, exchange and import/export of collection-related materials nationally and internationally.

8.Routine

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Wilhelmshaven Germany LabProjectManager MarineGenomics

Dear all, please note our job announcement for the Senckenberg German Center for Marine Biodiversity Research (DZMB) in Wilhelmshaven!

We are hiring as soon as possible a

Lab and project manager (m/f/d) of marine NextGen sequencing projects

(full-time position / part-time options available)

Your tasks

Supporting and consulting PIs in DNA and library preparation for metabarcoding, e-DNA, RAD sequencing, or high throughput amplicon sequencing, and other applications like de novo genome and transcriptome sequencing of marine organismsDeveloping strategies for high-quality DNA isolation and quantification from marine organism of difficult sources (meio and macrobenthos, zooplankton, Dinophyceae, deep-sea)Supporting PIs with bioinformatic analysis of Illumina runs (MiSeq, NextSeq), and prepare results and analyses for reports and scientific publicationsBeing responsible for organizing, operating, maintaining, and enhancing the NextGen Laboratory infrastructure in Wilhelmshaven (PCR and qPCR machines, MiSeq sequencer, Nanopore, Tape Station, etc.)Organizing and documenting sample preparation and NextGen sequencing for internal and external partnersManage communication with research groups (Universities, KDM and DAM Institutes), service providers and database managersParticipating and organizing sampling campaigns for NextGen projects at sea, responsible for sampling gears and sampling design at seaContribute to Senckenberg's research portfolio including our focus on "Anthropocene Biodiversity Loss"Contribute to organization-wide administrative roles relating to research (e.g. participation on internal and external committees, public outreach initiatives,)Willingness to participate in marine expeditions

Your Qualification

Scientific degree (Master of Science) preferably on a marine topic using molecular methodsIllumina training certificate and experience with operating NextGen sequencing platforms (e.g. MiSeq)Experience with library preparation (transcriptomes, metabarcoding, e-DNA, RAD sequencing) and quantification methods (Tape Station, Qbit, qPCR)Knowledge and experience in organizing, operating, maintaining, and enhancing laboratory infrastructureExperience with demultiplexing and statistical analyses of Illumina LibrariesProgramming experience for NextGen analysis using script languages (R, BASH, sed, Python)Experience with writing bioinformatic scripts for parallel computing on distributed UNIX/Linux clustersExperience with Managing NextGen sequencing projects with external partnersExperience and solid understanding of DNA and NextGen sequencing technologySea-going expedition experience on research vessels and solid understanding of sampling methods and sampling design for marine communitiesHighly service orientated with excellent communication skills

What is awaiting you?

An interesting task in a dynamic team of researchers in an international research institutionThe opportunity to gain experience in the above-mentioned research fieldOccasion to build a network with scientists in interdisciplinary fieldsflexible working hours - mobile working - support with child care or care for family members (certified by the "audit berufundfamilie") - a company badge - annual special payment according to the public service tariff - annual paid leave of 30 days - company pension scheme

Place of employment: Wilhelmshaven (Lower Saxony)

Working hours: Full time position (40 weekly working hours) / part time options are available (minimum 75%)

Type of contract: Start of contract is ideally as soon as possible; the contract is initially limited for 2 years, and can be made permanent after this period

Remuneration: According to the public service tariff TV-H E 11 - E 12 (depending on qualification and experience)

Senckenberg is committed to diversity. We benefit from the different expertise, perspectives and personalities of our staff and welcome every application from qualified candidates, irrespective of age, gender, ethnic or cultural origin, religion and ideology, sexual orientation and identity or disability. Applicants with a severe disability will be given special consideration in case of equal suitability. Senckenberg actively supports the compatibility of work and family and places great emphasis on an equal and inclusive work culture.

We welcome your application!

Please send your complete and comprehensive application (letter of motivation with a short description of your previous and current research foci, a CV, cer-

tificates of academic achievements as well as letters of recommendation) electronically (as a single PDF) to recruiting@senckenberg.de mentioning the reference number #02-24004 by 14.08.2024.

Alternatively, you can apply directly through our online application form at our home page www.senckenberg.de/de/karriere/bewerbung/ . Senckenberg Gesellschaft für Naturforschung Senckenberganlage 25

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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

Other

ESEB GlobalEvolBiolInitiative ProposalsSep1

ESEB GLOBAL EVOLUTIONARY BIOLOGY INITIATIVE (GEBI) - Call for projects

ESEB aims to foster the development and integration of local evolutionary research communities from regions outside of the traditional strongholds of the discipline, and their links with the evolutionary biology community in Europe. To address this need, the Global Evolutionary Biology Initiative (GEBI) can provide financial, organisational and strategic support.

GEBI now welcomes applications to support new projects in line with its aims (examples include meetings to establish or strengthen local researcher networks, conducting hands-on workshops to disseminate new tools or methods, or developing curricula for teaching).

THE DEADLINE FOR THIS CALL WILL CLOSE ON 1 SEPTEMBER 2024.

Applications should include a concise (up to two pages) description of the proposed activity and a detailed budget (in particularly specifying how the requested GEBI contribution will be used). Actions fostering evolutionary biology in the long term are particularly appreciated, and applicants are encouraged to describe how their proposals may reach this long-term objective. Maximal allowance is 10,000 euros per project. Information on previously supported events is available at https://eseb.org/prizes-funding/global-evolutionary-biology-initiative/events-supported-by-gebi/.

Actions based in Western and Northern Europe, USA, Canada, Australia, New Zealand and Japan are not eligible for support by GEBI. Actions that are already covered by other ESEB initiatives/committees, e.g. outreach activities or travel grants to individual students or researchers for attending workshops or conferences are not eligible for support byï¿½GEBI. Previously funded proposals are welcome to apply for further project development, but will compete with new proposals. New proposals will have priority, if ranked equal. Proposed activities should be completed by June 2025, or if justified, latest in fall 2025.

Proposals should be addressed to office@eseb.org (subject: GEBI 2025).We will acknowledge receipt of all applications within a week. If you have not received our confirmation by then, please contact the ESEB office again.

The GEBI committee

Deepa Agashe (Co-chair) Leonardo Bacigalupe Simone Immler Tadeusz Kawecki Yannis Michalakis Nina Sletvold (Co-chair) Mehmet Somel Elio Sucena

European Society for Evolutionary Biology Email: office@eseb.org Website: https://eseb.org ESEB Office <office@eseb.org>

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

EvolEcology CallForPapers Dispersal Reminder

Dear all,

We would like to remind you about a call for papers in Evolutionary Ecology, "Dispersal in Small Organisms." This Special Issue will appear on the 50th Anniversary of the publication of D. O. Wolfenbarger's "Factors Affecting Dispersal Distances of Small Organisms" and will cover dispersal in viruses, bacteria, plants, fungus, and insects. This solicitation calls for papers on behavior, ecology, genetics, and evolution that deal with factors promoting and restricting dispersal. The effects on dispersal for landscape connectivity, distributions, invasions, host diversity, and speciation are of particular interest. The submission deadline is November 1, 2024. Publication is expected in mid-2025, but accepted articles will be made available Online First on an ongoing basis. Pre-submission enquiries are welcome.

Find more information here: https://link.springer.com/journal/10682/updates/26984662 Best, Frank and Aur?lie

Frank W. Stearns Department of Biological Sciences Stevenson University Owings Mills, MD USA fstearns@stevenson.edu

Aur?lie Coulon Mus?um National d'Histoire Naturelle Centre d'Ecologie et des Sciences de la Conservation (CESCO), Paris, France and Centre d'Ecologie Fonctionnelle et Evolutive (CEFE), Montpellier, France aurelie.coulon@mnhn.fr

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LinneanSoc London SmallFieldworkGrants

The Percy Sladen Memorial Fund is a charity associated with the Linnean Society of London that offers small travel & subsistence grants (up to 2000) for fieldwork in Natural History (anthropology, archaeology, botany, geology, palaeontology and zoology). There are two application deadlines per year: 30th January and 30th September. Prospective applicants should email the fund's secretary, Elizabeth Rollinson, erollinson13@gmail.comfor an application form in good time before a deadline. With regret, the fund does not support conference attendance, visits to institutions, training or student studies that are part of student projects (undergrad, masters or PhD). Further information can be found here:Percy Sladen Memorial Fund Grants | The Linnean Society .

Josephine Pemberton

Prof JM Pemberton Institute of Ecology and Evolution School of Biological Sciences University of Edinburgh EH9 3FL

0131 650 5505

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.

Josephine Pemberton <J.Pemberton@ed.ac.uk>

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SMBE IDEA ProposalCall

SMBE IDEA 2024 call for proposals

SMBE, through the IDEA (Inclusion, Diversity, Equity and Access) task force, aims to address systemic racism, sexism, colonialism and other exclusion in our SMBE society. With this in mind, a budget of up to $25,000 per year will be dedicated to initiatives that help reduce inequities in molecular biology and evolution research. The task force would therefore like to invite members of SMBE to propose initiatives that would take place in the year 2024/2025.

Examples of initiatives could include, but are not limited to, workshops, symposia, training opportunities, stand-alone featured talks, or inequity data collection in particular groups, countries, or regions (to name a few). If you are interested in knowing what projects have previously been funded, please visit SMBE IDEA tab of the SMBE website.

We especially encourage initiatives that could potentially be sustainable beyond the funded year. We welcome proposals that require the full or only a portion of the budget, (budget justification will need to be provided).

Special emphasis will be given to projects that directly benefit the members of the SMBE society.

This form allows applicants to submit their proposal. You will find specific information for each requirement below.

At least one of the organisers must be a member of SMBE. Please note that students from underrepresented regions may apply for free membership by contacting SMBE directly. More information on how to do this is found in the SMBE webpage under membership: https://www.smbe.org/smbe/MEMBERSHIP.aspx Timeline: 16th of August - Submit your initial description via this form: Initial description of the proposed idea must be submitted via the present form. More information regarding format and requirements are below.

ATTENTION: Regardless of the number of organisers, each proposal should be submitted only once. Once submitted, you can no longer edit this form. You can choose to have the form sent to your email by clicking "send me a copy of my responses" at the bottom of this page.

13th of September - Be notified on whether your project is pre-selected or not: Initial submissions will be reviewed and pre-selected by the IDEA task force and candidates will be notified with a decision on whether their proposal was pre-selected or not.

11th of October - Submit your full project plan: If your initial submission is pre-selected, organisers will be informed and will be expected to submit a full project plan by email to smbe.idea@gmail.com. This must include a budget and time plan, as well as relevance and expected short and long-term impacts of the initiative on inclusion, diversity, equity and/or access. You will receive more information regarding the requirements for the full proposal if your project was pre-selected.

8th of November - Hear whether your project will be funded or not: Successful proposals will be notified. SMBE treasury will be notified of the selected proposals so that the funds can be transferred as soon as possible.

At least one of the organisers must be a member of SMBE. Please note that students from underrepresented regions may apply for free membership by contacting SMBE directly. More information on how to do this is found in the SMBE webpage under membership: https://www.smbe.org/smbe/MEMBERSHIP.aspx All deadlines are 5pm local time.

Organisers of successful proposals are expected to submit a report (around 2 pages) to the SMBE IDEA task force (smbe.idea@gmail.com) within 3 months of its completion.

Successful proposals will have the opportunity to present their progress at the IDEA symposium during the 2025 SMBE meeting - however we are unable to provide travel funding at this time.

If you have any questions, please reach out to us at smbe.idea@gmail.com

SMBE IDEA taskforce <smbe.idea@gmail.com>

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SSE Lifetime Achievement Award

About the SSE Lifetime Achievement Award:

The Society for the Study of Evolution (SSE) invites nominations for the Lifetime Achievement Award, which recognizes individuals who have made substantial contributions to the study of evolution through conceptual advances, impactful publications, and/or outreach/education. Individuals who have demonstrated outstanding mentorship of trainees, provided noteworthy service to the evolution community, and/or contributed to the diversity and inclusion of the field will also be recognized.

The awardee will be presented at the 2025 Evolution meeting (https://www.evolutionmeetings.org/). Recipients of this award are also invited to submit an accompanying article to Evolution (https://academic.oup.com/evolut) (primary research, review, insight or commentary, fast-tracked through review and made freely available) within two months of the conference. Published articles would highlight the award obtained.

Nomination Instructions:

Complete the form below with your name, the nominee's name, and two short descriptions of the nominee's contributions to the field and community. You will also be asked if you would be willing to provide a longer and more detailed nomination letter at a later date. SSE values the contributions of diverse researchers and encourages nominators to consider all potential mentors and colleagues. Self-nominations are welcome.

Nomination form: https://docs.google.com/forms/d/e/1FAIpQLSfluQlzBNWVEl19U9sNdQKBf3fhZEdE7t8VyS7Tv6yhxfiAxg

viewform?usp=sf_link Deadline: September 30, 2024

View past recipients of the award: http://-www.evolutionsociety.org/society-awards-and-prizes/lifetime-achievement-award.html Learn more about SSE: http://www.evolutionsociety.org/ *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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PostDocs

AuburnU UndergradBiologyEdResearch

Two Postdoc Positions: NSF-Funded Biology Education Research at Auburn University

Position Description. The Biology Education Research team at Auburn University seeks TWO full-time quantitative postdoctoral researchers to collaborate on a number of projects related to undergraduate biology education - e.g., research on counter-stereotypical biologist role models, how ideological bias impacts science, and other influences on student experiences in biology and STEM. Additionally, the successful applicants will be encouraged to develop projects based on their own interests and collaborate with others in the lab and the IUSE research team.

The successful candidates will be advised by Dr. Cissy Ballen (ballenlab.com) and will be part of NSF-funded projects through the Improving Undergraduate STEM Education (IUSE) program. The candidates will join a vibrant team spanning Auburn University and Michigan State University (PI Liz Schultheis).

Requested Qualifications - The position requires either a PhD in a Biology/Biology Education/STEM field with a demonstrated interest in science education or other related field. - Candidates should have experience with study design development, evidence of scholarly writing skills, and the ability to work well as part of a highly collaborative team. - Preference for this position will be given to applicants with strong skills in statistical analyses, such as regression, mixed modeling, structural equation modeling, as well as experience working with large datasets.

Note: If you are unsure if you will qualify, feel free to get in touch!

Location. Auburn is a fantastic, affordable college town,

and the Department of Biological Sciences is a collaborative setting for discipline-based education research. We have a great community here to study education, including collaborative teaching faculty as well as our friends over in the chemistry education research lab (PI Jordan Harshman), the geosciences education research lab (PI Karen McNeal), the physics education research lab (PI Eric Burkholder) and mathematics education research lab (PI Melinda Lanius).

Information about applying. The appointment is for one year with renewal for a second contingent upon satisfactory performance. Review of applications will begin immediately and until the position is filled. Start date is flexible, and the successful candidate can start in Winter 2025 or Summer 2025.

Applicants should email the following as a single PDF to Cissy Ballen: mjb0100@auburn.edu - Cover letter describing your interest and qualifications for this position, as well as any additional information you'd like us to know about you (~1 page) - Curriculum vitae (CV) - Contact information for two references

If you have questions about this opportunity or the study, please contact Cissy Ballen mjb0100@auburn.edu

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Clemson PlantEvolutionaryEcology

The Koski Plant Evolutionary Ecology Lab is seeking a postdoctoral scholar to conduct research on floral color evolution in a Southeastern annual plant. Specifically, we are examining the roles of pollinator shifts, abiotic shifts, and sensory drive in shaping flower color diversity among populations.

The postdoc will be responsible for collecting and analyzing data, mentoring undergraduate and graduate researchers, and writing manuscripts. Research will be conducted in the greenhouse, growth chambers, and natural field populations.

The primary projects will be a multi-generation experimental evolution study combined with growth chamber and field experiments. The ideal candidate would also take advantage of opportunities to study population genomics and metabolomics of the focal species, and/or engage in a community science project on flower color evolution. Funding is available for up to three years based on performance.

For more information about the department, please visit the Department's website at https://www.clemson.edu/-science/academics/departments/biosci/index.html For more information about Clemson, please visit the website http://www.clemson.edu/ . Qualifications

The applicant should have a PhD in evolutionary biology, ecology, plant biology or a closely related field. They should exhibit strong skills in the following: statistics, scientific writing, experimental design, and research mentorship.

Desired (but not required) expertise includes the following: selection analyses, statistics in R, bioinformatics with a focus on population genomics, plant biochemistry.

Application Instructions

Review of applications will begin immediately; however, the position will remain open until filled. Applicants should submit the following items via Interfolio at:

http://apply.interfolio.com/148925 (1) Cover Letter highlighting research and mentoring initiatives

(2) CV

(3) Contact information for 3 references

For more information, please contact Matt Koski (mkoski@clemson.edu)

Matthew Harold Koski <mkoski@clemson.edu>

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DalhousieU AtlanticCodGenomics

Postdoctoral position available in the group of Daniel Ruzzante at Dalhousie University, Halifax, Nova Scotia, Canada

A two-year postdoctoral position is available in the group of Daniel Ruzzante at Dalhousie University pending a successful NSERC/Mitacs funding application. The candidate will be part of the Northern Cod Acoustic Tracking (NCAT) project in partnership with the Ocean Tracking Network (OTN), Fisheries and Oceans Canada (DFO), and the Atlantic Groundfish Council. The candidate's work will focus on examining the relationship between genomics and movement in Atlantic cod.

The candidate must have experience in population genetics with a successful publication record and proficiency in bioinformatics and the analysis of low-coverage whole

genome sequencing data (lcWGS). Ideally, the candidate will also be knowledgeable in acoustic and satellite tracking data analysis.

To apply please submit a cover letter describing why you would want to join the group, a CV, and the names and contact information of two references familiar with your work.

Salary: CAD$ $65,000 - $75,000 range K per year depending on the experience of the candidate.

Starting date: assuming funding is confirmed, ideally September of 2024 but later dates also considered.

Interested people, please contact me at daniel.ruzzante@dal.ca

Dr Daniel E Ruzzante, Professor Graduate Coordinator Department of Biology, Dalhousie University, Halifax, NS, Canada - B3H 4R2 6287 Alumni Crescent ph:(902)494-1688 http://ruzzante.ca/ Daniel Ruzzante <Daniel.Ruzzante@Dal.Ca>

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DukeU EvolutionaryAnthropology

The Triangle Center for Evolutionary Medicine (TriCEM, https://tricem.org) at Duke University seeks a Postdoctoral Associate to serve as Assistant Director of TriCEM.

Applicants must have a Ph.D. and demonstrated experience in evolutionary medicine, scientific communication, and interdisciplinary research. The postdoc will conduct research in evolutionary medicine, while also working with a program manager to help run TriCEM programming and funding. A broad range of research interests will be considered, including research on cancer and evolution, the microbiome, infectious disease, brain sciences, and antibiotic resistance, with mentoring provided by TriCEM's Director and TriCEM-affiliated faculty. The position will provide experience with administration of a multi-institutional center, with a strong eye toward the scientific and communication components. The position will be for 2 years with competitive benefits and includes opportunities to engage the broader evolutionary medicine community through conferences, workshops, and collaboration. The position will start on or after August 1, 2024. Applicants should submit a cover letter, CV, and research statement that identifies relevant experience and interests in relation to the above description, and how this postdoctoral opportunity fits into the applicant's longer-term career goals. The application and cover letter should also include the names and contact information of up to three people who can be contacted to provide letters of reference (please do not send letters in advance of requests).

To apply for this position please upload a cover letter, C.V., and contact information for 3 references to Academic Jobs Online at https://academicjobsonline.org/ajo/jobs/27730. No paper applications will be accepted unless specifically requested. Questions may be directed to Dr. Charles Nunn at clnunn@duke.edu.

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

Duke aspires to create a community built on collaboration, innovation, creativity, and belonging. Our collective success depends on the robust exchange of ideas-an exchange that is best when the rich diversity of our perspectives, backgrounds, and experiences flourishes. To achieve this exchange, it is essential that all members of the community feel secure and welcome, that the contributions of all individuals are respected, and that all voices are heard. All members of our community have a responsibility to uphold these values.

"Johnny Uelmen, Ph.D." <johnny.uelmen@duke.edu>

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FloridaAtlanticU EvolutionaryGenomics

The DeGiorgio group (http://degiorgiogroup.fau.edu/), at Florida Atlantic University, is seeking to hire postdoctoral scholars to work on projects supported by NIH and NSF-NERC grants.

The NIH project would focus on developing statistical, machine learning, and signal processing methods to learn about natural selection from population genomic data.

The NSF-NERC project is in collaboration with Matteo Fumagalli at Queen Mary University of London (https:/-

/mfumagalli.github.io/) and would focus on designing deep learning methods for detecting and characterizing balancing selection from nonmodal study systems.

The position will offer a competitive salary, and the university is situated in the beautiful coastal city of Boca Raton, FL.

Informal inquiries are welcome by contacting Michael DeGiorgio directly at mdegiorg@fau.edu.

To apply, please submit a cover letter and CV at https://fau.wd1.myworkdayjobs.com/en-US/FAU/-job/Postdoctoral-Scholar_REQ18364 . –

Michael DeGiorgio, Ph.D. Associate Chair and Associate Professor Department of Electrical Engineering and Computer Science Florida Atlantic University Boca Raton, FL 33431 USA mdegiorg@fau.edu http://degiorgiogroup.fau.edu Michael DeGiorgio <mdegiorg@fau.edu>

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Frankfurt PDFandPhD ComparativeGenomicsBats

ERC-funded PhD and Postdoc Positions in Comparative Genomics (full time / part-time options available)

The Hiller Lab at the LOEWE Center for Translational Biodiversity Genomics (TBG) in Frankfurt, Germany has two openings for a PhD student and/or a Postdoc to work on the BATPROTECT project to investigate the genomic basis of long healthspans, disease resistance, and viral tolerance in bats.

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

The Project The overall goal is to uncover the genomic basis of exceptional healthspans and disease tolerance in bats, understand the evolution of these traits, and identify key molecular targets for functional validation. To this end, we will assemble ~150 new reference-quality bat genomes using HiFi and HiC sequencing to better cover the diversity of bats, generate comparative transcriptomic datasets, and analyze these data using our established methods repertoire (TOGA and others). Work includes phylogenomics, performing comparative screens to identify key adaptations in coding and noncoding (miRNA) genes as well as differences in gene expression patterns across the bat phylogeny, associating genomic changes with longevity and viral reservoir status traits, identifying novel bat genes, and investigating endogenized viral elements. The exact project will be defined based on the interests of the applicants. The PhD student and postdoc will work closely with other members of the BATPROTECT team, the Hiller lab, and other Bat1K collaborators. We also offer exchanges with the other BATPROTECT labs as well as yearly retreats with all project members.

Your profile - Degree in bioinformatics/computational biology, genomics or a related area - Solid programming skills in a Linux environment, experience with shell scripts and Unix tools - Strong interest in comparative genomics, prior experience is an advantage

Our lab The mission of our lab is to understand how nature's fascinating phenotypic diversity has evolved and how it is encoded in the genome. Work in the lab includes sequencing and assembly of reference-quality genomes, genome alignment and gene annotation, development and application of comparative genomic methods to discover differences in genes and gene expression, and the use of statistical approaches to link phenotypic to genomic changes. Our lab is part of TBG (https://tbg.senckenberg.de/) and the Senckenberg Research Society (https://www.senckenberg.de/en/), and is based near the city center of Frankfurt am Main, Germany. TBG provides access to cutting-edge computational (large HPC clusters, genome browser) and lab infrastructure to sequence and analyze genomes. English is the working language in our lab.

How to apply More information about the positions are at https://tinyurl.com/mwf2tr5c . Please send us your application containing a CV with a publication list and contact information for at least two references, a summary of previous research experience (max 1 page), and copies of certificates, transcripts and grades in elec-

tronic form (single PDF file) by *August 31st* to recruiting@senckenberg.de quoting the reference number #12-24005-1, or apply through the online application form on our homepage.

For more information about the lab and the project, please contact Michael Hiller (michael.hiller@senckenberg.de) or visit the lab webpage https://tbg.senckenberg.de/hillerlab/ .
Michael Hiller, PhD Professor of Comparative Genomics LOEWE Centre for Translational Biodiversity Genomics, Senckenberg Society for Nature Research & Goethe University, Frankfurt am Main, Germany

Michael Hiller <michael.hiller@senckenberg.de>

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Frankfurt PlantEvolutionaryEcology

About the university:

The Johann Wolfgang Goethe University Frankfurt am Main is one of the largest universities in Germany with around 44,000 students and with about 5,700 employees. Founded in 1914 by Frankfurt citizens and since 2008 once again proud of its foundation status Goethe University possesses a high degree of autonomy, modernity and professional diversity. As a comprehensive university, the Goethe University offers a total of 16 departments on five campuses and more than 150 degree programs along with an outstanding research reputation. Furthermore, the Goethe University is part of the Group of Rhine-Main-Universities (RMU).

The working group Plant Evolutionary Ecology at the Institute of Ecology, Evolution and Diversity of the Department of Biosciences at Goethe University Frankfurt am Main is seeking to fill the position of a

Research Associate (postdoc) (m/f/d) (E 13 TV-G-U)

for an initial period of three years. Restrictions on the period of employment of academic staff is governed by the Wissenschaftszeitvertragsgesetz in conjunction with the Hessian Higher Education Act. The salary grade is based on the job characteristics of the collective agreement applicable to Goethe University (TV-G-U).

About our research group:

The overarching goal of our research is to understand the distribution, function and dynamics of intraspecific phenotypic and genetic variation in plants within the context of global change. We specifically investigate rapid adaptation of plant populations to changes in climate and land use. We love to do experiments - e.g. common gardens, reciprocal transplantations and evolution experiments - and we combine concepts and methods from plant ecology, evolutionary biology, quantitative genetics, and population genetics and genomics. Our working group has access to modern labs, climate chambers, greenhouses and an experimental field site and offers technical and administrative support in research and teaching.

We are looking for an enthusiastic researcher with strong interest in the field of plant evolutionary ecology who is keen to develop an own research profile and simultaneously enjoys collaborating with others. The job includes a teaching duty in Bachelor, Master and teacher programs (4 LVS). Interest in applying for third-party funding is a plus.

Additional employment requirements are: -——— an academic degree (Master's or Diploma) and a PhD in biology, environmental sciences or a related discipline with a focus on evolutionary ecology, experimental ecology or a related field of research as well as a relevant publication record in international peer-reviewed journals, -——— very good knowledge of experimental design and statistics and strong expertise with R, -——— very good English language and communication skills (spoken and written); German language skills are a great advantage for teaching, -——— teaching experience is an advantage, -——— strong team and organizational skills, flexibility and an organized way of working, -——— driving license class B is an advantage.

Your responsibilities will include: -——— scientific collaboration in the coordination of research projects, -——— experimental work in the field of plant evolutionary ecology, -——— statistical analysis of data sets, -——— writing publications, reports and research proposals, -——— supervision of BSc and MSc thesis projects, -——— teaching in BSc and MSc modules.

The Goethe University is committed to a policy of providing equal employment opportunities for both men and women alike, and therefore encourages particularly women to apply for the position offered. Individuals with severe disability will be prioritized in case of equal aptitude and qualification.

Please send your application with a CV, a publication list, relevant certificates, contact details of two or three references, and a maximum three-page synopsis of the planned research focus by *15.08.2024* in electronic form (summarized in a PDF file of max. 8 MB) to Prof. Dr. Johannes Fredericus Scheepens via the working

group's secretary (anken@bio.uni-frankfurt.de). Unfortunately, Goethe University cannot reimburse any costs incurred in the application process. If you have any questions about the advertisement, please contact Prof. Dr. Scheepens (scheepens@bio.uni-frankfurt.de).

– Prof. Dr. J.F. Niek Scheepens <scheepens@bio.uni-frankfurt.de>

Plant Evolutionary Ecology Institute of Ecology, Evolution & Diversity Faculty of Biological Sciences Goethe University Frankfurt Max-von-Laue-Str. 13 60438 Frankfurt am Main, Germany

scheepens@bio.uni-frankfurt.de

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ImperialC London EvolutionaryGenomics

Research Associate in Evolutionary Genomics Imperial College London

Location: Silwood Park Campus London

Salary: GBP 46,593 to 54,630 per annum

Job Summary You will investigate how plant-fungal symbioses underpins speciation and plant diversity, including surveying mycorrhiza in Howea palms using metabarcoding, dual-RNA seq, and including fieldwork and experiments on the minute and isolated Lord Howe Island, a-UNESCO designated World Heritage Site in Australia.

Lab website: https://www.imperial.ac.uk/people/-v.savolainen Duties and responsibilities

* Genomic Analyses: Your primary responsibility will entail (i) conducting comprehensive genomic analyses of metabarcoding data from root and soil to characterise mycorrhizal diversity on Lord Howe Island; (ii) characterise differential gene expression in natural conditions between interacting organisms (DNA extractions and analyses of dual-RNA seq data), and (iii) characterise the potential interaction among host and fungal genotypes and between soils using a common garden experiment already set up on the island (DNA extractions and analyses of dual-RNA seq data). * Team Leadership: In addition to your analytical duties, you will help supervise a dynamic, multi-disciplinary team comprising both PhD and Masters students. This pivotal position necessitates adept guidance, fostering collaborative synergies, and ensuring the seamless execution of our research objectives. * Publications: As a valued team member, you will actively contribute to disseminating our ground-breaking research findings by co-authoring publications in high-impact, refereed journals, thereby fostering broader scholarly discourse and advancement in the field.

Essential requirements These include:

* Hold, or be near completion of, a PhD in evolution, ecology, genetics, or genomics. * A robust background in genomics, molecular biology, or a closely related field. * Demonstrated proficiency in analytical methodologies and research techniques. * Proven experience in leadership roles within collaborative research environments. * Exceptional written and verbal communication skills to effectively convey complex scientific concepts.

Further Information This is a full time, fixed term position until 30 June 2026. You will be based at Silwood Park Campus.

Candidates who have not yet been officially awarded their PhD will be appointed as a Research Assistant.

Should you require any further details on the role please contact: Prof Vincent Savolainen v.savolainen@imperial.ac.uk

TO APPLY visit https://www.jobs.ac.uk/job/DIP429/-research-associate-in-evolutionary-genomics Closes: 22nd July 2024

Prof. Vincent Savolainen

Director, Georgina Mace Centre for the Living Planet

Imperial College London Department of Life Sciences Silwood Park Campus Ascot, SL5 7PY, UK Tel +44(0)7746972672 v.savolainen@imperial.ac.uk www3.imperial.ac.uk/people/v.savolainen

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

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LMU Munich PDFandPhD PlantEvolution

PostDoc in Plant Biodiversity Research

About us The plant phylogenomics and systematics group at the Faculty of Biology, LMU Munich is con-

ducting evolutionary and ecological research on land plant biodiversity. We want to understand when, where and how our current plant biodiversity evolved and how plants adapted to different habitats and environmental conditions, with a focus on water limitation. In our research, we integrate over genomic and transcriptomic evidence as well as morphological and ecological data. Our current model organisms are drought or desiccation tolerant on different levels and range from bryophytes to angiosperms. For more information on our current research, please visit: https://en.sysbot.bio.lmu.de/-research/res-gr-bechteler/index.html *We are looking for you* Research and Teaching Assistant (Akademischer Rat auf Zeit) - Plant Biodiversity (m/f/x) in Munich, Germany

Your tasks and responsibilities – Research: - Participate in ongoing and future projects of the group and actively take part in group and project meetings - Develop and conduct own third-party funded research to establish your own research line - Manage and analyze research data, publish research findings in peer-reviewed scientific journals, present research results at inter- /national conferences

– Teaching: - Participate in teaching (five weekly hours per semester) (teaching is partly mandatory in German) and contribute to the development of teaching material - Supervise students at the Bachelor-, Master-, and PhD-level

Your qualifications - Doctoral degree in a relevant field (e.g., plant phylogenomics, comparative genomics and/or transcriptomics, population genetics) - Background in evolutionary-ecological genomics/genetics and plant systematics/functional biodiversity or equivalent - Experience in state-of-the-art molecular laboratory and bioinformatic/statistical methods - First experience with funding-acquisition and/or teaching is advantageous - Excellent oral and written communication skills in German and English (for non-native German speakers: the ability to teach (partly) in German is expected)

Benefits We offer you a stimulating research environment in a young and highly motivated international team. You will have the opportunity to join the interdisciplinary DFG-funded CRC1211 ???Earth ??? Evolution at the Dry Limit??? (https://-sfb1211.uni-koeln.de) as an associate member through our project B07 ???Desert transcriptomics: assessing the genetic basis of adaptation to aridity in desert dwellers??? (https://sfb1211.uni-koeln.de/index.php/-projects/cluster-b/project-b7?subprojectID=27)

Your workplace is located next to the Munich Botanical Garden and is easily reachable by public transport as well as by car. We offer flexible working hours, support in balancing work and family life, and professional training and personal development activities through a variety of LMU support services . In addition you can benefit from various LMU corporate benefits. The position is remunerated according to the civil servant category of ???Akademischer Rat/R??tin auf Zeit??? BesGr. A13, or in salary group TV-L E13 (100%). The position is initially limited to three years with a possibility for extension for additional three years. You have the possibility to work towards the completion of a habilitation (German post-doctoral degree) at the Faculty of Biology.

Also possible in a part-time capacity.

People with disabilities who are equally as qualified as other applicants will receive preferential treatment.

Contact Please send your application documents (letter of motivation, CV, list of publications and list of teaching experience, two-page research concept, contact details of three references, copies of degree certificates and transcripts) in one PDF via e-mail to the group leader Prof. Dr. Julia Bechteler: j.bechteler@lmu.de, no later than 31 July 2024. For questions about the advertised position please contact Prof. Dr. Julia Bechteler via e-mail.

Also kindly let us know briefly in your cover letter through which medium/website/etc. you became aware of our job advertisement. Where knowledge is everything.

LMU researchers work at the highest level on the great questions affecting people, society, culture, the environment and technology ??? supported by experts in administration, IT and tech. Become part of LMU Munich!

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MNHN Paris ExtinctionHistoricalDNA

Postdoctoral position in population genetics - Using a genetic time series and historical DNA to understand extinction risk

Understanding susceptibility to extinction using historical museum specimens as a genetic time series

Muséum National d'Histoire Naturelle (UMR ISYEB), Paris

Project leader: Ben Warren Project members planned to advise the postdoc in analyses: Yann Bourgeois, Lounes Chikhi.

Collaborator : Zhangyi He (BICR, UK).

Co-investigators: Catherine Theves and Ludovic Orlando (CAGT, Toulouse), Julian Hume (NHM, UK).

Evolutionary history is expected to play a major role in determining which species decline in population size to extinction in response to environmental change, but the processes by which this comes about are poorly understood. Although population genetic studies provide much promise to understand the microevolutionary processes behind macroevolutionary patterns of extinction risk, inferences can be limited by our confidence in the timescales inferred, and by the scale of such studies, which frequently include only one lineage. The postdoc will tackle both of these issues, benefitting from a unique genome-wide time series including pre-human reference points for multiple Mascarene island bird lineages that differ in abundance and other biological traits.

Islands in the Mascarene archipelago (Mauritius & Réunion), Indian Ocean, are unusual among sizable and biologically diverse landmasses worldwide, in that they had no human population until European arrival 400 years ago. Therefore, there exist museum samples and subfossils spanning the full duration of anthropogenic environmental change, allowing a real-time assessment of genetic response to environmental changes of known timing and across multiple species following first human presence.

In collaboration with others on the project the postdoc will be focussed on population genetic analyses with the potential to make inferences of genetic diversity, demographic change or selection, and comparing responses to common (and severe) environmental changes across multiple species that differ in abundance - common species versus rarer ones (most of which are IUCN threatened).

The genome-wide time series includes post-human genomes (˜ 20 per species) from both modern and historical (museum skin; AD 1801-1912) samples, as well as hyRAD sequences (up to 3 per speciues; ˜ 50 000 - 30 million bp) from subfossils (many of which are pre-human). The postdoc will complete the bioinformatics including both modern and historical DNA for at least two species, using an existing bioinformatic pipeline.

Work is to be conducted at the Paris Museum (MNHN, ISYEB research centre). Candidates should have a strong interest in the broad theme of the study - understanding the role of evolutionary history in determining which species decline towards extinction in response to environmental change. They should also be interested in relevant population genomic methods, and ideally have extensive experience of using them as well as in running prior bioinformatic pipelines to obtain variants.

Start date: 16th September 2024 is likely ideal.

Applications should ideally be submitted before July 15th (applications received until July 19th or until the position is filled).

For informal enquiries please contact: Ben Warren (bwarren@mnhn.fr).

To apply please email Ben Warren (bwarren@mnhn.fr) with the following, as a single PDF:

1) a detailed CV with publication list, and the names and email addresses of three referees who can comment on your expertise; 2) a letter of motivation explaining why you are interested in this position, and your specific qualifications and experiences relevant for the project.

Ben Warren <bwarren@mnhn.fr>

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OregonStateU SalmonConservation

The State Fisheries Genomics Lab at Oregon State University (OSU) invites applications for a Postdoctoral Research Associate position.

This Research Associate will work with a team of researchers to address the science and management needs of OSU's Coastal Oregon Marine Experiment Station

and the Oregon Department of Fish and Wildlife.

Research will primarily focus on evaluating the reintroduction of threatened spring Chinook salmon but also include opportunities to evaluate the genetic basis of adult run timing in Chinook salmon and steelhead.

Primary responsibilities include providing leadership in research, performing laboratory work as needed, population genetic analysis, analyzing genetic and genomic datasets, and writing peer-reviewed papers and technical reports.

The State Fisheries Genomics Lab is located at the Hatfield Marine Science Center in Newport, Oregon; this position is located on-site.

Please see the link below for full details including application instructions: https://-jobs.oregonstate.edu/postings/157267 "Olsen, Kevin" <kevin.olsen@oregonstate.edu>

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Oxford Two EndosymbiosisFungalEvol

Working for the Department of Biology you will be responsible for carrying out research for a Gordon & Betty Moore Foundation grant with aim of understanding the pathways that control a nascent endosymbiotic interaction between a protist and green algae.

The project will involve single cell transcriptome, hyperLOPIT 3D subcellular proteomics data combined with RNAi approaches to identify how a host cell can manipulate the fate of its endosymbiotic partner cells. Using these datasets, we will then apply phylogenomic methods to understand how host control mechanisms evolve in endosymbiotic interactions. You will have the opportunity to use a number of established datasets and so must be confident in a range of bioinformatic approaches. As such the post could be largely a bioinformatic post or one that combines an equal share of bioinformatic analyses and laboratory work.

More information about the job can be found here: https://my.corehr.com/pls/uoxrecruit/-erq_jobspec_version_4.display_form More information about the research group can be found here: https://protists.co.uk Thomas Richards <thomas.richards@biology.ox.ac.uk>

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You will join the Richards molecular microbiology group with responsibility for carrying out research for a Leverhulme Trust project with aim of characterising the structural biology of unique fungal organelles associated with rhodopsin function and phototaxis (a putative subcellular eye).

The project will focus on using cutting edge structural microscopy (FIB-SEM and CryoET) to characterise prominent uniform structures found in these organelles (working between the departments of Biology and Biochemistry). You must be capable of working independently and will be responsible for developing new protocols for isolation of sub cellular fractions and performing CryoET, FIB-SEM, subtomogram analysis and model building. The successful candidate must also take these data through to protein structural bioinformatic analyses.

More information about the job can be found here: https://my.corehr.com/pls/uoxrecruit/-erq_jobspec_version_4.display_form More information about the research group can be found here: https://protists.co.uk Thomas Richards <thomas.richards@biology.ox.ac.uk>

Thomas Richards <thomas.richards@biology.ox.ac.uk>

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SantaFeInstitute EvolutionaryComplexity

APPLY HERE < https://apply-sfi.smapply.org/prog/-complexity_postdoctoral_fellowship_/ >

Complexity Postdoctoral Fellowship at Santa Fe Institute (apply by October 11, 2024) An utterly unique opportunity to work on fundamental questions at the intersection of disciplines.

The fellowship offers:

- freedom to pursue your own research agenda without boundaries - up to three years in residence at the Santa Fe Institute - dedicated funds for research and collaboration - a structured leadership training program - competitive salary and paid family leave - opportunities for transdisciplinary collaboration with leading researchers worldwide

TO APPLY: http://www.santafe.edu/sfifellowship For questions please contact sfifellowship@santafe.edu

Hilary Skolnik Program Manager Postdoctoral Fellows Santa Fe Institute hilary@santafe.edu

Hilary Skolnik <hilary@santafe.edu>

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SLU Sweden PlantGenomicsHeatStress

Postdoctoral stipend: 'Genomics of Heat Stress on Plant Reproductive Health'

Department of Plant Protection Biology

Due to climate change, plants are increasingly exposed to heat waves when flowering. This is bad news for the temperature sensitive pollen grains, as high temperatures can lead to increased pollen sterility. Interested in being part of the solution? We are looking for a postdoc who is interested in finding the genetic basis of heat tolerant reproductive traits in wild woodland strawberries for future plant breeding programs.

About the position

The post doc will be part of an ongoing project looking at the impact of heat stress on plant reproductive health (e.g. heat induced pollen sterility), mating system (e.g. ability to self-fertilize) and plant-pollinator interaction (e.g. impact of heat stress on nutritive value of pollen grains for pollinators). The aim of this postdoc position is to identify genetic variants associated with heat stress that can be used for marker assisted selection in future breeding programs. The candidate will have at their disposal around 200 genotypes of the wild woodland strawberry (Fragaria vesca) that have already been collected across Europe. We propose to expose these genotypes under two different controlled environments (heat stress and control) and observe their phenotypic response. This data will then be used to perform a GWAS and/or gene expression analysis to find candidate genes related to heat stress. Hence, we are looking for a candidate with previous experience in genotypic-phenotypic association analysis. We are also looking for a candidate that feels confident to participate, in dialogue with the PI, in the final design and development of the study in addition to conducting, and analysing experiments. Other duties include writing scientific manuscripts, presenting project outcomes at seminars and workshops, and supervising bachelor or master's students as and when the opportunity arises.

Your profile

Candidates should hold a PhD in biology, ecology, plant breeding, evolutionary ecology, plant physiology, plant genomics, plant protection, bioinformatics or a similar subject. It is essential that the candidate has genomics and bioinformatics experience and is fluent in statistical analyses. Experience with lab, and common gardens in controlled environments is a merit. Feeling confident in the subjects of plant reproductive biology, mating system, quantitative genetics, and plant breeding is a plus. We are looking for someone who is detail oriented but also passionate about science, creative and intellectually curious and enjoys scientific discussions. Excellent communication skills in both oral and written English are required. The ideal candidate feels comfortable both with independent and collaborative working styles. As postdoctoral appointments are career-development positions for junior researchers, we are primarily looking for candidates with a doctoral degree that is five years old at most. Due to the nature of the funding, their doctorate needs to have been granted by an institution other than SLU. Furthermore, the candidate should not have been employed in Sweden beforehand.

About us

You will be based in the Department of Plant protection Biology at the Swedish University of Agricultural Sciences in Alnarp, Sweden. Research efforts at the department are directed towards both fundamental and applied research. The Department of Plant protection Biology is an interdisciplinary constellation, encompassing Integrated Plant Protection, Chemical Ecology, Resistance Biology research units. You will be part of the Integrated Plant Protection Unit composed of about 15 researchers (professors, associate researchers, researchers, post docs and PhD students). The Integrated Plant Protection group aims to generate knowledge towards the development of integrated disease, pest and pollinator management practices based on conceptual theory and empirical eco-evolutionary, molecular, and genetic data that can meet the needs of current and evolving plant production systems. You will also have ample collaboration possibilities with the neighboring Plant Breeding Department. The project you will be working on is led by researcher Carolina Diller, and Johan A. Stenberg, a close collaborator. The department offers several facilities, such as greenhouses, controlled environmental chambers (biotron), molecular and chemical labs. The campus is located in a beautiful park close to the beach reachable by a 10 min bike ride. We are also

surrounded by the academically renown town of Lund, the third biggest city of Sweden, Malmö, and just a hop away across the Oresund bridge is Copenhagen. Sweden strives for its healthy work-life balance working style.

For more information about the department or division visit: https://www.slu.se/en/departments/plant-protection-biology/

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StonyBrookU SquamateGenomicsMacroevolution

The Title Lab at Stony Brook University is seeking a full-time postdoctoral researcher to work in on several projects that involve multiple newly sequenced lizard and snake reference genomes. A primary goal will be to analyze these genomes in light of the unique natural history characteristics exhibited by these species, and by the clades they belong to, in concert with other published squamate genomes. One project will involve the analysis of unique characteristics of one of the first xantusiid night lizard genomes. Particular interest resides in developing projects that bridge broadscale macroevolutionary patterns in squamates with genomic mechanisms.

The Title Lab (https://www.pascaltitle.com/) is part of the Department of Ecology and Evolution at Stony Brook University, New York. Other areas of interest in the lab include macroevolution, macroecology and biogeography.

Expected start date is Fall 2024 and applications will be accepted until July 14.

A complete list of qualifications and other information about this position can be found through the official job posting: https://stonybrooku.taleo.net/careersection/2/jobdetail.ftl?job=2402181&tz=GMT-04%3A00&tzname=America%2FNew_York Pascal Title, PhD Assistant Professor pronouns: he/him Department of Ecology & Evolution | Stony Brook University https://www.pascaltitle.com Pascal Title <pascal.title@stonybrook.edu>

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UCalifornia Berkeley PupfishEvolutionGenomics

Postdoctoral position on the evolution, genomics, and craniofacial morphology of 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 postdoctoral scholar for genomic and morphological 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. This position includes 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 expertise or interest in *genomics, phenomics, functional morphology, genetics, 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 NIH NIDCR R01 and NSF CAREER grants. Start date is flexible. Salary is based on the recently negotiated UAW union rates for the UC system, commensurate with experience, approximately $67,000 per year with substantial annual raises.

Potential projects in the lab include:

1) Measuring diversification rates within San Salvador Island and Chichancanab pupfishes from micro-CT scan data.

2) Connecting genotype-to-phenotype using genome-wide association mapping of craniofacial traits and population genomics in Caribbean pupfishes.

3) Validation of candidate adaptive variants using CRISPR-Cas9 and other functional genetic approaches in the lab to determine effects on phenotype, behavior, or feeding performance.

4) De novo genome assembly and annotation.

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 genomics, phylogenetic comparative methods, microCT analysis, or developmental biology.

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.

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 email 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 on July 22. Please feel free to contact me at the below email address with any questions.

Christopher Martin

Associate Professor and Curator of Ichthyology

Department of 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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UKansas PlantTelomereEvolution

Postdoc position in plant telomere evolution

The Choi lab (https://jychoilab.github.io/) at the University of Kansas is seeking for a postdoctoral scholar to join an interdisciplinary project that combines plant genetics, chromosome biology, and evolution. This is a NIH funded position to understand the genetics and function of telomere variation in plants, and the evolutionary forces that shapes plant telomeres. The project will combine quantitative genetics with CRISPR and functional genomics including single cell approaches and population genomics.

Basic Qualifications: - Applicant should have a Ph.D. in the following or related fields: genetics, molecular biology, or evolution. - Demonstrated experience in plant biology, especially plant genetics or plant molecular biology is highly desired. - A strong interest in evolutionary biology is necessary.

Preferred (but not necessary) Qualifications: - Experience with plant infiltration and generating transgenics is highly desired - Experience with high-throughput sequencing and genomic data analysis is desired but not necessary. This can be taught to the candidate.

Please check the following link for additional information and details for applying.

https://jychoilab.github.io/docs/Ads/-ChoiLab_KU_Postdoc_Recruitment_Ad.2024.pdf
Specific questions regarding the recruitment can be directed to Jae Young Choi at jaeyoung.choi@ku.edu

Jae Young Choi, PhD Assistant Professor of Evolutionary Genomics Department of Ecology and Evolutionary Biology Office: Haworth Hall 7008 University of Kansas, Lawrence, KS https://jychoilab.github.io/ jaeyoung.choi@ku.edu

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UKonstanz IntragenotypicVariation

An exciting opportunity to join a diverse research group working at the interface of ecology and evolution. The successful candidate will be part of an interdisciplinary team of researchers investigating the role of intergenotypic variation in the evolutionary and ecological dynamics of species interactions.

This project, funded by the Volkswagen Foundation, investigates individual variation independent of genotype and environment and how this variation can contribute to ecological and evolutionary dynamics. Using single cell approaches for eukaryoptic unicellular organisms, we aim to show when the combined intergenotypic variation of two interacting individuals hinders or facilitates rapid evolution and thus the overlap of ecological and evolutionary timescales.

Position 1 (36 months): The main responsibilities of this position include single cell assays to describe intragenotypic variation and estimate fitness consequences in green algae and other unicellular eukaryotes using high throughput imaging approaches and molecular tools. The position holder will also perform short term experiments to study the fitness consequences of intergenotypic variation of two interacting individuals and conduct experimental evolution. The successful candidate will have a Ph.D. or equivalent in evolutionary biology and extensive experience working with single cells and phytoplankton.

Post 2 (24 months): The main responsibilities of this position will include single cell transcriptomics and the development of genetic markers to describe intragrenotypic variation in green algae (and potentially other unicellular eukaryotes). The candidate will have a PhD or equivalent in molecular biology, extensive knowledge of sequence analysis and single cell work, and some background in phytoplankton work.

Konstanz is a very beautiful and pleasant place to live, bordering the third largest lake in Central Europe and situated near the Alps. As an equal opportunities employer, we welcome applicants from all sections of the community regardless of age, gender, gender identity, ethnicity, disability and sexual orientation. Interested candidates should send a CV, a short cover letter highlighting interests and potential research questions, and the contact details of two professional referees to lutz.becks@uni-konstanz.de. For more information see https://www.limnologie.uni-konstanz.de/becks/ or send email to Lutz. Review of applications will begin immediately and will continue until the position is filled.

Prof. Dr. Lutz Becks University of Konstanz Aquatic Ecology and Evolution Universitï¿½tsstraï¿½e 10 78464 Konstanz / Egg Germany Phone: 07531 88 2828 E-Mail: lutz.becks@uni-konstanz.de https://-www.limnologie.uni-konstanz.de/en/ag-becks/ Mailbox: Fach 648 Room M1056

Lutz Becks <lutz.becks@uni-konstanz.de>

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ULaRochelle France CancerEvolution

POSTDOCTORAL POSITION IN EVOLUTION OF CANCER RESISTANCE AND SOMATIC MUTATION RATE IN MAMMALS

The research teams led by Mathieu Giraudeau (LIENSs, University of La Rochelle, France) working on the evolution of cancer resistance in wild organisms and by Alex Cagan (University of Cambridge, UK) working on the accumulation of somatic mutations are recruiting a new postdoctoral researcher. The position is fully funded for 2 years by a Chaire d'Excellence Nouvelle Aquitaine to Mathieu Giraudeau.

The postdoc hired will spend time in France and the UK (the time spent at each university can be discussed). We are looking for candidates with a background in evolutionary biology who could ideally start late 2024/early 2025, though this is open to discussion.

https://euraxess.ec.europa.eu/jobs/228103 . *Project information* The etiology of cancer in humans and laboratory model organisms (e.g. rats) has received ample attention, but many aspects of cancer remain poorly understood or seriously understudied. For instance, it is now widely recognized that cancer not only affects humans but also occurs in nearly every vertebrate species of the animal kingdom, from rodents to whales, in various stages from precancerous lesions to final stages, called metastatic cancers. However, despite increasing interest, our knowledge of cancer in wildlife is extremely limited, even regarding its prevalence in major vertebrate clades, its causes, consequences, life history, genetic or physiological predictors or how environmental change contributes to emerging cancer cases. Accurate

estimates on cancer in wildlife promise extremely valuable information on oncogenic processes, as the limited research conducted on non-standard model organisms already provided tremendous insights into the natural mechanisms of cancer resistance. For example, very low cancer rates are ensured by duplications of the TP53 tumour suppressor gene in elephants, overproduction of high molecular mass hyaluronan in the naked mole rats9, interferon-mediated concerted cell death in the blind mole rat and reduced growth hormone insulin-like growth factor-1 signaling and microRNA changes in bats. Despite its value, robust cancer prevalence data on animals was surprisingly limited until the publication of our recent paper with information for nearly 200 species of captive mammals (https://www.nature.com/articles/s41586-021-04224-5). Our study demonstrates the universality and high frequency of oncogenic phenomena in mammals and reveals substantial differences in cancer mortality across major mammalian orders, strongly suggesting that some species are more resistant to cancer than others. Our results also highlight that cancer mortality risk is largely independent of both body mass and adult life expectancy across mammalian species. This might appear surprising since larger bodied and long-lived animals have larger cell numbers and undergo more cell divisions during their lifetime, resulting in an increased probability of accumulating somatic mutations, potentially leading to cancer. Our study thus suggests that natural selection on large size or extended longevity might have been associated with the evolution of more efficient anticancer defences. The most likely mechanism being a slower rate of mutational accumulation in large, long-lived taxa.

All organisms accumulate mutations in the cells in their DNA as they age. While most of these mutations are thought to have no impact on organismal function, mutations in certain genomic regions can transform healthy cells into cancer cells. It has only recently become possible to directly study this transformation from healthy cells into malignant ones through advances in the accuracy of genome sequencing technologies. This work is revealing how different cell types accumulate mutations at different rates (https://www.nature.com/articles/s41586-021-03822-7) and how cells carrying cancer causing mutations can spread to colonize apparently healthy tissues as we age (https://pubmed.ncbi.nlm.nih.gov/30337457/). While we are learning much about how these processes operate in humans we know virtually nothing about other species. We recently found that somatic mutation rates vary greatly across mammalian species (https://www.nature.com/articles/s41586-022-04618-z), which may partially explain differences in cancer risk that have been observed between species (https://www.nature.com/articles/s41586-021-04224-5). While this work has advanced our understanding of how mutation rates vary across

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UMainz EvolutionInCommunities

Postdoc position / group leader - Plant real-time evolution Mainz, Germany

The Institute of Organismic and Molecular Evolution at the University of Mainz, Germany, invites applications for a postdoc / junior group leader position for an ERC funded project in the department of Evolutionary Plant Sciences, headed by Prof Shuqing Xu (https://plant-x.uni-mainz.de/). The project aims to study the causes, consequences and mechanisms of evolution in natural communities in response to climate change.

The successful candidate may start on the 1st October 2024, or as early as possible. The salary will initially be provided for three years, with the possibility of an extension.

Supported by other group members, the candidate will use the state-of-the-art multiomics approach to understand plant real-time evolution in natural communities. During this project, the candidate will mature his/her scientific skills and develop independence in project planning and management skills. He/she may have the opportunity to supervise PhD/Masters students and establish a research group.

Requirements: We are looking for a highly motivated researcher with a doctoral degree, or an equivalent thereof, in biology, evolutionary genetics, bioinformatics, or computer science. The candidate is expected to design, conduct and organize the projects independently. A training background in bioinformatics, evolutionary genetics/genomics, or community ecology is preferred. Applicants must demonstrate experience in statistics and genomics. Experience with computational modelling is a plus. Our group consists of people of various nationalities and teamwork is essential for all projects in the group. Therefore, excellent communication skills, as well as proficiency in spoken and written English, are expected.

The University of Mainz hosts many excellent scientific institutions (http://www.uni-mainz.de/eng/), and Mainz is a historic city located on the Rhine River with many students and a rich social and cultural life.

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

Applicants should send their documents in one single PDF file to Prof Shuqing Xu (shuqing.xu@uni-mainz.de) with the subject line either "Plant real-time evolution postdoc position - Your Name". The application review will commence on 15th August 2024. The position will remain open until filled.

Best wishes, Shuqing Xu

Prof. Dr. Shuqing Xu Institute of Organismic and Molecular Evolution (IomE) Johannes Gutenberg University Mainz Biozentrum I Hanns-Dieter-Hüsch-Weg 15 D-55128 Mainz Germany Phone: +49 6131 39 26907 E-mail: shuqing.xu@uni-mainz.de

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

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UMontana ScrippsCollege SelfishCentromereGenomics

The Fishman (Division of Biological Sciences, University of Montana) and Finseth (Department of Natural Sciences, Scripps and Pitzer Colleges) Labs are seeking a highly motivated postdoctoral associate to join an NSF-funded study of the mechanisms and consequences of centromere-mediated meiotic drive in monkeyflowers. This project builds on robust genomic resources for yellow monkeyflowers to investigate the roles of satellite DNA, centromeric proteins, and linked genes in causing selfish chromosomal transmission. The postdoctoral associate's primary research responsibility will be genomic and epigenomic analyses of satellite DNA evolution and centromere formation among functionally distinct centromeres. However, the project is integrative and the successful candidate will be encouraged to participate in the other components, as well as to develop new research directions. Yellow monkeyflowers (Mimulus guttatus species complex) provide a uniquely powerful system for investigating how selfish centromeres violate Mendelian laws to impact natural population. Thus, we particularly encourage applicants interested in developing their own research program on genetic conflict at the interface of molecular and evolutionary biology. The postdoctoral scholar will also have opportunities to gain experience mentoring undergraduate and graduate students, and the option of co-teaching in an embedded CURE.

The postdoc will be co-mentored by Dr. Fishman and Dr. Finseth. The position will be hired through the University of Montana, but the postdoc may choose to be physically based either in the Fishman Lab at UM (Missoula, Montana) or in the Finseth Lab at Scripps and Pitzer Colleges (Claremont, CA), with support for cross-institution travel. The University of Montana is an ADA/EOE/AA/Veteran's Preference Employer and has a strong institutional commitment to the principle of diversity in all areas.

Position Details Position is full-time, 1.0 FTE, Letter of Appointment and includes a comprehensive and competitive benefits package < http://www.umt.edu/-hrs/Personnel%20Resources/Benefits/default.php >

Salary: $57,000-65,000 per year commensurate with qualifications.

Timeframe: 2 years, with extension possible for an additional year. Start date is flexible, but ideally prior to January 2025.

Detailed information on the position and institutions, as well as a link for applying, can be found at the UM Jobs website < https://-www.schooljobs.com/careers/ummissoula/jobs/-4566490/postdoctoral-research-associate-fishman-and-finseth-plant-evolutionary-genomics?keywords=-postdoc&pagetype=jobOpportunitiesJobs > . To apply (ideally by August 15), upload a letter of interest and curriculum vitae, including the names and contact information for three references. Applications must be made through the UM jobs portal, but please feel free to contact me (lila.fishman@umontana.edu) and Dr. Finseth (ffinseth@keckscl.claremont.edu) directly with inquiries about the position.

– Dr. Lila Fishman, PhD (she/her) Professor, Ecology & Evolution Graduate Program Director, MONTU Herbarium and ECOR Core Facility Division of Biological Sciences, University of Montana, Missoula MT 59812 web: www.fishmanlab.org

Lila.Fishman@mso.umt.edu

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USheffield EvolutionaryGenetics

Postdoctoral research associate position in evolutionary genetics

Ecology and Evolutionary Biology, School of Biosciences, University of Sheffield

Fully funded 3-year position. Closing date 01 August 2024

We have an exciting opportunity for a motivated and enthusiastic individual interested in evolutionary biology and population genetics to join an interdisciplinary project funded by the Human Frontiers Science Project (HFSP) titled 'Securing shifting sands - from genes to geoengineering'. You will lead the genetic side of this project and be responsible for field sampling (including Europe, North America, South Africa, Australia), leaf trait analysis, DNA library preparation and bioinformatic analysis. In collaboration with coastal ecologists and engineers, the project aims to understand how variation in sand dune building plants translates to whole landscape changes in terms of topography and resilience.

As a vital member of our team, you will receive encouragement and support to develop your own research projects, supervise postgraduate students, attend national and international conferences, and publish your findings in peer-reviewed journals. Additionally, you will collaborate closely with other Research Associates and PhD students in the laboratory.

We are seeking candidates with a PhD (or equivalent experience) in a relevant field and a strong analytical and quantitative skill set. Expertise in bioinformatics, in particular population genetic analyses and GWAS along with wet-lab experience of preparing samples for next-generation sequencing are also essential.

We build teams of people from different heritages and lifestyles from across the world, whose talent and contributions complement each other to greatest effect. We believe diversity in all its forms delivers greater impact through research, teaching and student experience.

Apply at: https://www.jobs.ac.uk/job/DIO175/-research-associate Please contact Dr Luke Dunning for further information (l.dunning@sheffield.ac.uk)

Dr Luke T. Dunning

NERC Fellow Ecology and Evolutionary Biology School of Biosciences University of Sheffield @LukeTDunning < https://twitter.com/luketdunning > https:/-/dunning-lab.sites.sheffield.ac.uk/ < https://dunning-lab.group.shef.ac.uk >

Luke Dunning <l.dunning@sheffield.ac.uk>

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UtahStateU EvolutionOfSocialInsects

Hi EvolDir: I am hiring a post doc to work on social insect evolution, particularly caste evolution in ants. See the ad below and at the following link: https://careers-usu.icims.com/jobs/8162/-postdoctoral-fellow-ii—biology/job The Smith Lab at Utah State University is seeking to hire a post-doctoral scholar to collaborate on projects in ant social evolution, and to establish their own line of research. Current projects include Osiris gene family evolution and function in phenotypic plasticity of insects; nutritional drivers of ant caste evolution; and understanding the evolution of social traits in the worker castes of ants. This position is also expected to collaborate with and/or mentor graduate students and undergraduate students in research. Professional development, including teaching (and mentorship in teaching), will be available as part of this position. The post-doc will also be encouraged to develop independent lines of inquiry from those currently in the lab. The appointment will last for 2 years, but extensions for teaching are possible (dependent on availability).

For more information on the lab's research see: https://scholar.google.com/citations?user=-3Fdnq2sAAAAJ&hl=en Chris R. Smith Professor and Department Head Department of Biology Utah State University

5305 Old Main Hill

Logan, UT 84322-5305

Chris Smith <crsmith.ant@gmail.com>

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UWarsaw ProtistSymbiosisEvolution

Postdoctoral Position in freshwater protist diversity and symbioses

Institute of Evolutionary Biology, Faculty of Biology, University of Warsaw, Poland

Position overview

The Institute of Evolutionary Biology invites applications from suitably qualified candidates to apply for a three-year Postdoctoral Research Fellowship as part of the Polish National Science Centre Sonata BIS project led by Dr Anna Karnkowska, called "Unravelling the establishment of endosymbiosis: quest for intermediate evolutionary stages among microbial eukaryotes (SYMBIOSTART)". The successful candidate will join the Genomics and Evolution of Microbial Eukaryotes team.

The SYMBIOSTART project's main goal is to understand the establishment of endosymbiosis by identifying and characterizing novel protist-endosymbiont systems at intermediate stages of endosymbiosis. We will screen various freshwater environments for such interactions, isolating and identifying partners using microscopic and genetic methods. The organisms in the intermediate stages of endosymbiosis will be studied at the level of genome evolution and at the level of gene expression regulation that accompanies the endosymbiotic interaction. We will also examine the ultrastructure of the studied cells which - together with genetic information - will reveal the nature of the studied systems. Experiments on established cultures of protists and their endosymbionts will enable a deeper understanding of the endosymbiosis process, including identifying the genes encoding proteins essential for its early stages. More about the project: https://ibe.biol.uw.edu.pl/en/-projects/symbiostart/ The work will include:

- Participation in fieldwork and wet lab research, including the acquisition of material for further research, single-cell picking, establishing cultures, DNA/RNA isolation and sequencing. - Microscopy (light microscopy, FISH, TEM) and genomic characterization of newly identified organisms and their symbionts. - Bioinformatic analyses of genomic and transcriptomic data. - Preparation of publications, presentation of results, supervision of students participating in the project. - It is expected that the post-doc will travel for project-related meetings and conferences as well as potential training to other laboratories.

The ideal post-doc candidate will have a strong interest in evolutionary biology and microbial eukaryotes (protists). This project involves the isolation and culturing of new protist-bacterial symbioses, their microscopic characterization, and the development of innovative techniques to achieve these goals. Additionally, the project includes genomic and transcriptomic analyses of these new systems. Candidates are not required to have extensive experience in all these research areas. We welcome applicants with expertise in either culturing and microscopy or in bioinformatic analyses and a willingness to learn. Most importantly, we are looking for individuals interested in non-model organisms and evolution of eukaryotes.

Requirements

1. PhD degree in biology or a similar area obtained not earlier than seven years prior to the employment in the project (note: this does not include periods of maternity or parental leave). We also consider candidates who will soon complete their PhD. 2. Experience in laboratory work and/or sampling; 3. Research experience in cultivation of microorganisms and microscopy and/or bioinformatics and genome analyses; 4. Good writing and oral communication skills in English; 5. Experience in first-author manuscript writing; 6. Scientific independence and team working skills;

Application Deadline: 30 September 2024

Start Date: 1 November 2024 or later

Monthly salary: 8700 PLN per month (gross), plus "13th salary" bonus

Application process

Applicants are required to submit the following documents in a single pdf, via email, to: dziekanat.biol@uw.edu.pl and a.karnkowska@uw.edu.pl with annotation WB-K-11/2024 by no later than midnight, on September 30th, 2024

1. an application addressed to the Rector of the University of Warsaw including a signed statement on the processing of personal data; 2. copy of a PhD diploma (for applicants without a diploma, a declaration of the expected date of the defense is expected) 3. a photograph; 4. professional CV including a list of publications; 5. motivation letter including research interests; 6. names and contact data (e-mail, phone number) of two academic researchers who can provide information about the Candidate; 7. a statement, in which the candidate confirms having read and accepted the regulations for conducting competitions, as set out in Ordinance No 106 of the Rector of the University of Warsaw, from 27

September 2019, defining procedures for conducting a competition for the post of an academic teacher at the University of Warsaw (Monitor UW item

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UWyoming OralMicrobiome

UPDATED SUBMISSION DATE!

To apply, please submit all application materials to the job portal: https://eeik.fa.us2.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_1/job/241514/?utm_medium=jobshare The University of Wyoming invites diverse applicants to consider our employment opportunities. We are also especially interested in candidates who have experience working with diverse populations and/or diverse initiatives.

JOB TITLE:

Post Doctoral Research Associate - Anthropology

JOB PURPOSE:

The Department of Anthropology at the University of Wyoming is currently hiring a post-doctoral research associate to support research at the newly created Molecular Anthropology Laboratory under the direction of Dr. Allison Mann.

The overarching research theme will be the oral microbiome in the context of tooth decay with a major focus on the impact of bacterial communities and their metabolism on differential risk for caries disease in children and adults living in the Rocky Mountain region. Post-doctoral candidates should have a strong publication record, experience analyzing next-generation sequencing data (e.g., metagenomic, metataxonomic, and/or metatranscriptomic data) and have experience using bioinformatic tools relevant to genomic and/or microbiome research. Candidates with experience using Python/R/Bash and HPC systems are particularly encouraged to apply.

This position is a 1-year fixed term appointment that can be renewed based on satisfactory performance for up to three years. The position will start on September 1st, 2024, but a later start date can be requested.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

Conducts data analysis, visualization, and interpretation of microbiome data.

Writing and preparing manuscripts for publication.

Helps to manage operation of the lab and maintains a safe and productive environment.

Helps guide and mentor graduate and undergraduate students.

REMOTE WORK ELIGIBILITY:

This position provides vital support to campus customers and requires the successful candidate be available to work on campus.

MINIMUM QUALIFICATIONS:

Applicants are required to have (or be expected to receive) a PhD degree or equivalent terminal degree in a suitable discipline and have the demonstrated ability, experience, and record of scholarship appropriate to carry out the functions of the position.

PhD in an appropriate field before the start of appointment.

Analytical experience in microbiome research.

Valid driver's license with a motor vehicle record (MVR) compliant with the University Vehicle Use Policy.

DESIRED QUALIFICATIONS:

Familiarity with oral microbial ecology.

Expertise in the analysis of metagenomic and/or metatranscriptomic datasets.

Bioinformatic programming and data analysis experience.

Excellent writing and communication skills.

REQUIRED MATERIALS:

Complete the online application and upload the following for a complete application: cover letter, resume or C.V. and contact information for four work-related references.

Applications received by 08/20/2024 will receive full consideration.

HIRING STATEMENT:

UW is an Affirmative Action/Equal Opportunity Educator and Employer. We are committed to a multicultural environment and strongly encourage applications from women, minorities, veterans and persons with disabilities.

In compliance with the ADA Amendments Act (ADAAA), if you have a disability and would like to re-

quest an accommodation to apply for a position, please call 307-766-2377 or email jobapps@uwyo.edu.

ABOUT LARAMIE:

The University of Wyoming is located in Laramie, a town of 30,000 in the heart of the Rocky Mountain West. The state of Wyoming continues to invest in its university, helping to make it a leader in academics, research and outreach. The university has state-of-the-art facilities in many areas and the community provides the advantages of a major university.

Located in a high mountain valley near the Colorado border, Laramie offers both outstanding recreational opportunities and close proximity to Colorado's Front Range, a bustling group of metropolitan cities including Denver, Boulder, and Fort Collins. This beautiful mountain landscape offers outdoor enjoyment in all seasons, with over 300 days of sunshine annually. For more information about the region, please visit http://visitlaramie.org/ Allison E. Mann, PhD. (she/her) Postdoctoral Research Fellow

Clemson University Department of Biological Sciences

aemann01.github.io

Allison Elaine Mann <amann3@clemson.edu>

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WesleyanU Ohio InvasiveUrbanLizards

Ohio Wesleyan University seeks a postdoctoral researcher committed to undergraduate teaching to work on a National Science Foundation-funded project on invasive populations of the common wall lizard in Ohio. The post-doc position combines training in research, mentorship, and teaching toward the goal of developing a strong profile for a successful research career at primarily-undergraduate institutions such as ours.

We seek a person committed to excellence in research, mentoring, and undergraduate teaching to work with PI Eric Gangloff on the project "BRC-BIO: Success in the Anthropocene: Evolutionary Ecology of the Common Wall Lizard in Ohio". Public abstract available here: https://www.nsf.gov/awardsearch/showAward?AWD_ID=2217826&HistoricalAwards=false The postdoctoral researcher-teacher will contribute to this project by bringing expertise in urban evolution/ecology, thermal biology, functional morphology, ecophysiology, behavior, genomics, or a related discipline. Research projects will include mentorship and collaboration with undergraduate students. Additionally, the postdoctoral position will design and instruct one upper-level Biology course per year in their area of expertise, contingent on student demand and departmental needs, with support from the PI, department, and other faculty.

The successful candidate will join a vibrant Biological Sciences community and will benefit from extensive support, including a range of workshops and mentoring programs. This position is designed explicitly to offer training and experience for a candidate interested in a career as a tenure-track faculty member with a successful research program at a primarily-undergraduate institution. Start date is variable, preferable between January and May 2025. Salary is $60k/year plus full benefits.

We are especially interested in candidates who can mentor students from a great diversity of backgrounds and model being a successful researcher. For more information about Academic Affairs and its commitment to DEI, visit https://owu.edu/dei . Ohio Wesleyan University (OWU) is a private, residential, liberal arts college located in the thriving city of Delaware, Ohio. OWU enrolled 1,410 students in fall 2022. This is a full-time, 12-month position eligible for university benefits, including medical, dental, vision, and prescription coverage, tuition remission for dependents, robust 403(b) contributions by the university, short-term and long-term disability insurance, life insurance, vacation and sick leave, and more!

Responsibilities –In conjunction with PI Gangloff and other collaborators, develop research questions and projects in field studies and lab experiments –Lead students in experimental design, data collection, data analysis, presentation of research, and writing of scientific manuscripts –Present research at local, national, and international meetings –Publish manuscripts, with undergraduate collaborators, in peer-reviewed journals –Design and teach one class per year as instructor of record, with support and guidance –Engage effectively with students inside and outside the classroom, maintaining a high level of accessibility –Work proactively to identify students having trouble and help them achieve success

Minimum Qualifications –Ph.D. in Ecology and/or Evolutionary Biology (or related field) –Ability to effectively mentor undergraduate students in research experiences –Commitment to working with people from diverse backgrounds and to helping students from diverse racial,

social, and cultural groups attain their full potential

Preferred Qualifications –Evidence of preparation for a teaching-intensive career at the undergraduate level

Applicants should submit the following: –Cover letter (1-2 pages) –Combined Research and Mentoring statement (a statement outlining the central aims of your research program and how this work had included or will include mentoring undergraduate students from diverse backgrounds; no more than 2 pages total) –CV

Please submit all materials to: https://tinyurl.com/-5edjwwt3 Here you will find additional information about working at OWU. Additional materials and reference letters may be requested at a later time and can be sent directly to facultyjobs@owu.edu. Please make sure to include the program name (Lizard Postdoc) in the subject line.

For full consideration, application materials should be submitted by 20 September 2024.

WHAT WE OFFER:

Ohio Wesleyan University offers a rewarding place to work! To discover why this should be your next work home, visit our website. Learn more about our benefits at Discover our Benefits. As an equal opportunity institution, OWU has a commitment to diversity, equity, inclusion, and anti-racism. We do

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WorkshopsCourses

BernU Switzerland RecombinationEvol Sep30-Oct1

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cE3c Portugal EvolBiol 2025

Selection of cE3c Advanced Courses 2025

The detailed program of the Advanced Courses organized by cE3c - Centre for Ecology, Evolution and Environmental Changes

https://www.ce3c.pt/ - for the academic year 2024/2025 is already available.

These courses are aimed for students enrolled in Doctoral Programmes in Biology or related area. They can also be attended by post-graduate students of other Doctoral Programmes or Masters in Biology, or others with basic biology formation (such as BSc in Biology or related areas).

The courses have in general an intensive format, with one week of duration. Some have a shorter format (see details in each course's programme). If not otherwise indicated they are attended in person (not online).

We present below the list of courses of more interest for evolutionary biologists or development of soft skills. More details of these and other courses (including programmes, fees and procedures for applications) can be found at:

https://www.ce3c.pt/training Advanced Courses cE3c 2024/2025

06-10 Jan 2025 - Bioinformatics Analysis of biological sequences from sequence to structure- Teresa Nogueira (ONLINE)

13-15 Jan 2025 - Science and the Media: bringing together scientists, journalists and society - Marta Daniela Santos

27-31 Jan 2025 - Remote sensing of the environment: a practical course - Maria Alexandra Oliveira et al. (NEW)

31 Mar-04 Apr 2025 - Strategies for citizen engagement in Science Communication - Cristina Luís & Patrícia Tiago

07-11 Apr 2025 - Entomology: Insect diversity and decline - Ana Sofia Reboleira & Roberto Keller (organizers) et al.

12-16 May 2025 - Trends in Functional Diversity: from Ecological Indicators to Ecosystem Services - Alice Nunes et al.

02-06 Jun 2025 - Use of technology in field biology- Maria Dias, Inês Rosário (organizers) et al.

25-27 Jun 2025 - Introduction to R programming and biological data analysis - Inês Fragata & Alexandre Blanckaert

30 Jun-04 Jul 2025 - Advanced R for Ecology and Evolutionary Biology - Inês Fragata, Vitor Sousa & & Alexandre Blanckaert

14-18 Jul 2025 - Museum Techniques in the 21st Century - Ricardo Lopes et al. (NEW)

21-25 Jul 2025 - Measuring Biodiversity: how to get data, assess its quality and measure different aspects of diversity - Joaquin Hortal & Ana Margarida Santos

Margarida Matos Executive Committee of Centre for Ecology, Evolution and Environmental Changes Faculdade de Ciências da Universidade de Lisboa

Margarida Matos <mmmatos@ciencias.ulisboa.pt>

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Online BiodiversityDataAnalysis Sep5-11

Dear all,

There are only a few seats left for the Physalia course "Analysing Biodiversity Through Time and Space using R": (https://www.physalia-courses.org/courses-workshops/biogeography-in-r/)

This online course, taking place on 5-6-9-10-11 September, will provide researchers with essential skills to analyze biodiversity patterns over time and space using R.

In this course, you will learn how to: Build automated workflows for data acquisition, cleaning, and analysis in R Detect errors and sampling biases in data Estimate diversity and diversification rates Visualize data effectively for clear communication Understand the processes shaping biodiversity, both past and present If interested, secure your spot soon!

For a complete list of our courses and workshops, please visit: (https://www.physalia-courses.org/-

courses-workshops/)

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846

"info@physalia-courses.org" <info@physalia-courses.org>

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Online EvolutionaryBiogeography Oct14-25

Dear colleagues,

We are excited to announce the new edition of Transmitting Science course: "Model-Based Statistical Inference in Evolutionary Biogeography"

Instructor: Dr. Nick Matzke [1] (University of Auckland, New Zealand).

This course is of interest to researchers studying the biogeographic story of a particular clade, including its phylogeny.

Schedule: Online live sessions on October 14th, 17th, 22nd, 24th, and 25th, 2024. From 8:00 to 12:00 (Madrid time zone).

Programme:

Basics:

* Intro to R and phylogenies * How to read and use phylogenies * A short history of historical biogeography methods and assumptions * Likelihood-based statistical model choice * Phylogenetic biogeography * New probabilistic models for historical biogeography in BioGeoBEARS. * Using BioGeoBEARS and interpreting results.

Advanced:

* Biogeographical stochastic mapping. * Including geographical and environmental distance in models. * Integrating biogeography with traits – trait-dependent dispersal * Running analyses over multiPhylo objects (posterior distribution) and interpreting results. * State-dependent Speciation/Extinction models (SSE) basics in R * State-dependent Speciation/Extinction models (SSE) for large biogeography problems in Julia * Integrating GIS & paleogeography data (e.g. GPlates)

Help session for student projects.

Wrap-up.

You can check the full information (and registrations) here: https://www.transmittingscience.com/-courses/evolution/model-based-statistical-inference-evolutionary-biogeography-2/ Or write to courses@transmittingscience.com if you have any questions.

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/-nick-matzke/ Soledad De Esteban-Trivigno <soledad.esteban@transmittingscience.com>

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Online GenomeAssemblyAnnot Nov4-6

ONLINE COURSE - Genome Assembly and Annotation (GAAA01)

10 X EARLY BIRD PLACES! PR stats have added 10 early bird places with 10% off reducing fees to 387.00. The first 10 tickets are first come first serve basis when you book via our website*

https://www.prstats.org/course/genome-assembly-and-annotation-gaaa01/ 4th - 6th November 2024

Please feel free to share!

COURSE OVERVIEW - Genome assembly is the process of piecing together fragments of DNA to reconstruct the original genome. The genome provides crucial information for understanding genetic structure, function and variation.

In recent years, long-read sequencing technologies have revolutionized genome assembly. These long reads can span repetitive sequences and structural variations making genome assembly simpler but also reducing gaps and fragments in the genome, resolve repeats, help with the detection of structural variation as well as improved haplotype phasing.

During this course we will look at data generated using PacBio and Oxford Nanopore, discuss the pros and cons of both sequencing technologies and the effect they might have on genome assembly. During the course we will look at different tools available to generate assemblies, focussing on de novo genome assembly. Polishing using short or long reads and the introduction of Hi-C sequencing can increase completeness of the genomes. At the difference steps during the assembly process we will look at the contiguity, completeness and correctness of the generated genomes, thereby evaluation the status of the genome.

Once a genome has been assembled the next step is annotation. Genome annotation involves identifying and mapping locations of genes and other functional elements within the sequenced genome. We will take a look at the differences between prokaryote and eukaryote genomes and the tools available for annotation. We will talk about steps to improve annotation once the automatic annotation has been made.

By the end of the course, participants should:

Know the difference between Nanopore and PacBio data Be able to assembly genomes Be able to assess the generated genomes Assemble genomes integrating Hi-C data Know how to annotate a genome Please email oliverhooker@prstatistics.com with any questions.

Best wishes,

Oliver

Oliver Hooker PhD. PR stats

Oliver Hooker <oliverhooker@prstatistics.com>

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Online GenomicDataVisualisation Nov18-20

Dear all,

We're excited to announce our upcoming online course, "Genomic Data Visualization with R," taking place from November 18-20. This course is designed to help you master essential genomic data visualization techniques using R.

Course website: (https://www.physalia-courses.org/-courses-workshops/genomic-data-viz/)

In this course participants will learn how to create and interpret a variety of graphs crucial for genomic studies. From volcano plots and heatmaps to phylogenetic trees and synteny plots, our comprehensive sessions cover it all.

Session Details: Monday: Expression study graphs (e.g., volcano plots, heatmaps) Tuesday: Genomic study graphs (e.g., Manhattan plots, genome stats plots) Wednesday: Comparative genomics graphs (e.g., phylogenetic trees, Venn diagrams) For the full list of our courses and workshops, please visit: (https://-www.physalia-courses.org/courses-workshops/)

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846

“info@physalia-courses.org” <info@physalia-courses.org>

Online ManualGenomeCuration Nov11-15

Dear all,

registrations are now open for the online course on Manuel Genome Curation using PretextView.

Dates: 11th - 15th November

Course website: (https://www.physalia-courses.org/-courses-workshops/genome-curation/)

Our course will introduce biologists and bioinformaticians to the concepts of manual genome curation using PretextView, through theoretical knowledge and practical examples. We will start introducing the concept of Hi-C sequencing and why this data is important to genome curation. Some steps prior to genome curation also will be addressed, such as the sort of information we can obtain from assembly quality metrics and the relevance of decontaminating your assembly before curation. Points such as how to generate a genome curated fasta file and strategies used to curate more challenging genomes will also be explored during the course. Finally, we will show how to identify sex chromosomes and some additional tools helpful for curation. By the end of the course, students will be familiar with manual genome curation, enabling them to interpret and work with Hi-C maps. In addition, they will understand everything that is needed to deliver high-quality chromosome assemblies.

After atteding this course, participants will be able to:

Understand how the assembly and Hi-C data quality are vital for efficient genome curation. Interpret Hi-C heatmaps in PretextView and identify the edits necessary to fix assembly errors. Use PretextView and its features for manual curation. Obtain a genome curated fasta file using the Rapid Curation pipeline. Use additional tools to curate more challenging genomes (microchromosomes, high heterozygosity) and how to identify sex chromosomes. For the full list of our courses and workshops, please visit: (https://www.physalia-courses.org/courses-workshops/genome-curation/)

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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Online MetabolomicsWithR Oct7-10

Dear all,

We are excited to announce our upcoming online course, Metabolomics with R/Bioconductor (5th edition), scheduled for October 7-10. This course is designed to provide a comprehensive overview of metabolomics from a data analyst’s perspective.

We will cover all the key aspects which have to be considered to set-up a successful metabolomics investigation, from the practical issues related to study/analytical design to data pre-processing and statistical analysis. The course will be delivered relying on a mixture of lectures, computer-based practical sections, and group discussions.

The objective of the course is to make participants familiar with the analysis analysis of metabolomic data (targeted and untargeted) in R. The course will also constitute an excellent primer to the application of univariate and multivariate statistics to complex datasets.

For more information, please visit: [https://www.physalia-courses.org/courses-workshops/course55/]

For the full list of our courses and workshops, please visit: (https://www.physalia-courses.org/courses-workshops/)

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846

“info@physalia-courses.org” <info@physalia-courses.org>

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Online Metagenomics Oct7-10

ONLINE COURSE - Introduction to Metabarcoding and Metagenomics Analysis (IMAM01)

10 X EARLY BIRD PLACES! PR stats have added 10 early bird places with 10% off reducing fees to 432.00. The first 10 tickets are first come first serve basis when you book via our website*

https://www.prstats.org/course/introduction-to-metabarcoding-and-metagenomics-analysis-imam01/
Instructor- Edinburgh Genomics

7th - 10th October 2024

Please feel free to share!

COURSE OVERVIEW-Metabarcoding and metagenomics study genetic material recovered from environmental samples. Both methods provide a comprehensive view of microbial communities which are present in various ecosystems. The ability to identify organisms from traces of genetic material in environmental samples has reshaped the way we see life on earth. Especially for microorganisms, metagenomic techniques have granted us unprecedented insight into the microbiome of animals and the environment more broadly

Metabarcoding and metagenomics are both methods to study the composition of these complex communities. Where metabarcoding focusses on looking at a single or a combination of marker genes, metagenomics looks into everything within a community.

During this course we will look at the differences and similarities between these two methods. We explain how to process the data using both short and long reads data, we take a look at the pros and cons and some of the pitfalls. We will guide you through the different approaches to take when processing the data and walk you through using some of the tools which are considered to be golden standard in the field. You will have hands on experience processing real data.

By the end of the course, participants should:

Understand the basic concepts behind metabarcoding and metagenomics Work with both short and long read data for both metabarcoding and metagenomics Be able to use Qiime2 and NanoClust for analysis of metabarcoding Know different methods (metaphlan, humann) for marker based taxonomic and functional annotation of metagenomics data Create and annotated metagenome assembled genomes (using megahit, checkm, gtdb-tk) Be able to annotated antibiotic resistance genes in metagenomics data

Please emil oliverhooker@prstatistics.com with any questions.

A full list of our live courses can be found here

Best wishes,

Oliver

Oliver Hooker PhD. PR stats

Oliver Hooker <oliverhooker@prstatistics.com>

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

Online PacbioGenomeAssembly Nov4-8

Dear all,

registrations are now open for the 5th edition of the online course:Genome Assembly using Pacbio data!

Dates:November 4th-8th

Course website: (https://www.physalia-courses.org/-courses-workshops/pacbio/)

This course will introduce the audience to a specter of methods that are present in a usual assembly workflow, starting from raw data and finishing with a fully assembled genome. We will see how to manipulate raw reads, analyse their quality, how to run different assembly algorithms, how run Hi-C scaffolding algorithms, and how to analyse assembly quality.

Structured over five days, this course consists of both theoretical and practical aspects which are intertwined through each day. The presented theoretical foundation will be applied to small eukaryotic datasets.

This course is intended for researchers interested in learning the theory and practice of how to perform de novo eukaryotic genome assembly using Pacific Biosciences Long Reads and Hi-C data. Both beginners and more advanced users will find useful information in this course.

For the full list of our courses and workshop, please visit: (https://www.physalia-courses.org/courses-workshops/-pacbio/)

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846

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

Online RADseq Nov18-22

Dear all,

We are excited to announce that registrations are open for the 7th edition of the online course on RAD-seq Data Analysis, taking place in November 18-22. This course is designed to foster international participation and bring together researchers and technical workers from around the world.

Course website: (https://www.physalia-courses.org/-courses-workshops/course16/)

In this course, we will introduce various approaches for obtaining reduced representation genome sequencing data and focus on data analysis using Stacks. You will learn all the necessary steps to obtain genome variants from short read data that are informative for population genetics, phylogenetic, and association studies.

The course will span five days, with each day featuring an introductory lecture and class discussion of key concepts. The remainder of each day will be dedicated to practical hands-on sessions. These sessions will include mirroring exercises with the instructor and individual exercises, with group discussions on interpreting results.

This course is ideal for researchers and technical workers involved in generating and/or analyzing reduced representation genome sequencing data (RAD-seq, ddRAD, 2bRAD, GBS, etc.). We will cover examples involving non-model organisms, both with and without draft reference genomes, and demonstrate applications of this data type for various purposes.

Best regards,

Carlo

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Online ReproducibilityDataAnalysis Oct24-28

Dear all,

We are excited to announce our upcoming online course on Reproducibility Data Analysis with R, which will be held online from October 28-31. This course is designed to help you streamline your R projects for better collaboration and reproducibility.

Course website: (https://www.physalia-courses.org/-courses-workshops/r-reproducibility/)

Have you ever faced challenges with sharing your R code, such as missing packages, unclear scripts, or code that breaks after updates? This course will equip you with the skills to avoid these issues. Learn to leverage tools like RMarkdown, renv, version control, and more to ensure your projects run smoothly, even weeks later.

This course is ideal for researchers, data scientists, and anyone using R to generate documents who wishes to collaborate efficiently. A basic understanding of R is recommended.

By the end of this course, you will be able to: Create reproducible R projects and documents Manage package dependencies Track changes using git Collaborate using GitHub Create and publish containers Daily Schedule: 9 AM - 1 PM (Berlin time): Live lectures, coding, and exercises Asynchronous support via Slack 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 RNAseqWithBioconductor Nov4-15

Dear all,

registrations are open for the 5th edition of the online course on the Analysis of RNAseq data with R/Bioconductor: (https://www.physalia-courses.org/-courses-workshops/course19/)

This course will provide biologists and bioinformaticians with practical statistical analysis skills to perform rigorous analysis of high-throughput genomic data. The course assumes basic familiarity with genomics and with R programming, but does not assume prior statistical training. It covers the statistical concepts necessary to analyze genomic and transcriptomic high-throughput data generated by next-generation sequencing, including: hypothesis testing, data visualization, genomic region analysis, differential expression analysis, and gene set analysis.

The course takes place over 6 days, with each session lasting 3 hours:

** Session 1 - Introduction (Nov 4, 12-3 PM, Berlin time)

- Introduction to R / RStudio - Creating high-quality graphics in R

** Session 2 - Hypothesis testing (Nov 6, 12-3 PM, Berlin time)

- CDF, p-value, binomial test - types of error, t-test, permutation test

** Session 3 - Introduction to Bioconductor (Nov 8, 12-3 PM, Berlin time)

- Introduction to Bioconductor - Working with genomic region data in Bioconductor (GenomicRanges)

** Session 4 - RNA-seq data analysis (Nov 11, 12-3 PM, Berlin time)

- Characteristics of RNA-seq data - Storing and analyzing RNA-seq data in Bioconductor (SummarizedExperiment)

** Session 5 - Differential expression analysis (Mon, Nov 13, 12-3 PM, Berlin time)

- Multiple hypothesis testing - Performing differential expression analysis with DESeq2

** Session 6 - Gene set analysis (Wed, Nov 15, 12-3 PM, Berlin time)

- A primer on terminology, existing methods & statistical theory - GO/KEGG overrepresentation analysis - Functional class scoring & permutation testing

For the full list of our courses and workshops, please visit: (https://www.physalia-courses.org/courses-workshops/-course19/)

Best regards, Carlo

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UGroningen ESEB InternalConflictsSTN Oct14-15

Dear colleagues,

We would like to remind you about the first workshop for the "Internal Conflicts and Organismal Adaptation" Special Topic Network (STN), funded by the European Society for Evolutionary Biology, which will take place on 14-15 October 2024. This workshop will be held at the Linnaeusborg on the Zernike campus of the University of Groningen, The Netherlands. Registration for the workshop is free, and can be arranged through our website (https://internalconflictsSTN.wordpress.com/). The deadline for in-person registration is August 15, 2024; note however that in-person spots are limited and may fill up before then.

In-person participants will be asked to give a (short) talk about an internal conflict of their choosing*. This can be something that you work on, but also something that you would like to know more about. We would like these talks to be more like the "introduction" section of a manuscript than the "results" section that we typically see in talks, but this is not a strict requirement; instead, see this as an opportunity to switch up your usual presentation routine. As a whole, we would like to use these presentations to survey the field of internal conflicts. We expect talks to take approximately 10 minutes, but will provide exact details once we know how many people will be attending in person.

* Opting out is possible, but discouraged! We intend for this to be a low-stakes, easy-going thing, like a potluck of talks.

We will also host a number of group discussions - both general and in "breakout room" format - to work out specific goals for the STN. One aim for these discussion sessions is to decide on the possibility of writing a large review paper, generating a special issue, or some similar alternative on the study of internal conflicts and how these affect organismal adaptation. Other potential topics include the atlas of internal conflicts, and we hope to identify some topics organically based on talks and chats at the workshop itself.

We understand that traveling across the globe to attend these meetings can be an impediment for many people for many reasons, and additionally that travel-related emissions represent a major component of the associated ecological footprint. Therefore, we will set up a live stream of the talks so that people can join the workshop virtually. Additionally, we aim to host an online group discussion to allow people to contribute there as well. We do not intend to host talks by virtual attendees at the workshop. If you would like to present your work virtually, please get in touch with us to see if there is a possibility to do so in one of our seminars instead.

We look forward to seeing you in October. If you have any questions or suggestions, feel free to contact us through email (internalconflictsSTN@gmail.com).

Sincerely, The STN organising committee Martijn Schenkel, Arvid Ãgren, Manus Patten and Nina Wedell

ESEB-funded Special Topic Network "Internal Conflicts and Organismal Adaptation" https://-internalconflictsstn.wordpress.com/ https://eseb.org/-prizes-funding/special-topic-networks/ Internal Conflicts STN <internalconflictsstn@gmail.com>

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UMarburg Germany Epigenetics Sep30-Oct2

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bw0KZ29sZGluZ0BtY21hc3Rlci5jYTxtYWlsdG86Z29sZGluZ0BtY21hc

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.