
E v o l D i r

April 1, 2022

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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Asilomar California ForestGenetics Jun14-16

We are pleased to announce that the inaugural meeting of the North American Forest Genetics Society (NAFGS) will be held on June 14-16, 2022 at the Asilomar Conference Grounds, Pacific Grove, California. (<https://treegenesdb.org/nafgsconference>). We had to delay the inaugural meeting by two years due to the pandemic.

The inaugural meeting of the NAFGS is designed to be primarily a strategic session to develop the mission, goals, and functional capacities of the NAFGS, as well as invited and short contributed talks. In this way, the NAFGS will be different from the long-standing meetings in North America for the discipline of Forest Genetics (Southern Forest Tree Improvement Conference, Western Forest Genetics Association, Canadian Forest Genetics Association).

The leadership of the NAFGS encourages your participation in this inaugural meeting by bringing your ideas and priorities to the development of the first professional society in North America for the discipline of

Forest Genetics. We have chosen the Asilomar Conference Grounds near San Francisco as the venue for this event as the beautiful setting and intimacy of the venue greatly facilitates collegial interactions and creativity.

We sincerely hope to see you at Asilomar in June.

David Neale, President Fikret Isik, Vice President Nathalie Isabel, Secretary Jill Wegrzyn, Treasurer

“Wegrzyn, Jill” <jill.wegrzyn@uconn.edu>

Bainbridge Washington SelfishEvolution Jul24-27

AGA2022 President’s Symposium ?i’ Selfish Evolution: Mechanisms & Consequences of Genetic Conflict

<https://www.theaga.org/agatwentytwentytwo> President Lila Fishman will hold the 2022 Symposium July 24-27, 2022, at the beautiful IslandWood < <https://islandwood.org/outdoor-meeting-and-retreat-venue/> > campus on Bainbridge Island near Seattle, Washington (with virtual options for speakers and attendees). The Symposium will include the Key Lecture plus two

days of invited talks, panels, and poster sessions on topics spanning the field of genetic conflict and selfish evolution.

Featured topics include:

- Chromosomal drive
- Spore and gamete killers
- Cyto-nuclear conflict
- Genetic conflicts over offspring
- Gene drive and its applications

AGA Symposia are small meetings that provide excellent opportunities for cross-stage interaction, and the American Genetic Association is committed to supporting early-stage attendees. Students and postdocs who register and submit an abstract before June 1st will receive free registration.

Invited speakers to date include:

Yaniv Brandvain

Justin Havird

Sarah Zanders

Amanda Larracuent

Daven Presgraves

Hanna Johannessen

Anna Lindholm

Polly Campbell

Jenn Coughlan (postdoc)

Kelly Dawe

Omar Akbari

Islandwood is a non-profit environmental education organization that provides a welcoming space for conferences and special events at its 250-acre campus. There are meadows, forests, and ponds, nature walks and outdoor activities, delicious and plentiful shared meals, and spacious light-filled meeting rooms and sleeping lodges. We will have the whole campus to enjoy for our symposium registrants and their guests.

Visit the website <https://www.theaga.org/-agatwentytwentytwo> or contact Lila Fishman lila.fishman@umontana.edu for more details.

theaga@theaga.org

Bilbao Spain AppliedHologenomics Sep13-15

We are delighted to announce the 1st Applied Hologenomics Conference, to be held at the Palacio Euskalduna, Bilbao, Spain, from 13-15th September 2022. The conference is coordinated by the University of the Basque Country, and is financially supported by the 'Holofood' European Union RIA Award 817729 (www.holofood.eu). Thus attendance to the conference itself is free. Our partners at EMBL-EBI will offer a training course on the 2 days prior to the conference in applied multiomic data analysis (to be advertised soon).

Understanding host-microbiota interactions is increasingly recognised as an essential step to improve the efficacy and efficiency of applied biological processes within medicine, agriculture and nature conservation. As such, the joint study of eukaryotic hosts and their associated microbial communities using molecular tools, namely hologenomics, holds the promise to contribute towards addressing some of the global challenges in the 21st Century.

The objective of the 1st Applied HoloGenomics conference is therefore to highlight key discoveries and novel approaches that aim at understanding the interactions of plant and animal hosts with their associated microbial communities, which could be directly or potentially applied into management and practice.

In brief this conference will aim to cover these three key questions:

- * What are the current uses of hologenomics?
- * What societal and industrial needs of the 21st century could be addressed through hologenomic approaches?
- * How can hologenomics be used to link basic and applied research questions?

We have an excellent set of keynote speakers lined up, including Seth and Sarah Bordenstein (Vanderbilt University), Lone Gram (Danish Technical University), Phil Pope (NMBU, Norway), Rob Dunn (North Carolina State University), Christina Warinner (Harvard University), Ana Pombo (Max Delbrück Centre for Molecular Medicine) and Lars Hestbjerg Hansen (University of Copenhagen).

For full details, please see the conference website:

<https://appliedhologenomicsconference.eu/> Abstract

deadline is 1st May 2022, registration deadline is 15th June 2022.

We hope evoldir readers with an interest in hosts, microbiomes, and integrating the two to solve future basic and applied challenges will consider attending.

On behalf of the Holofood consortium,

Tom Gilbert Director, Center for Evolutionary Hologonomics (ceh.ku.dk) University of Copenhagen

Tom Gilbert <tgilbert@sund.ku.dk>

Blossin Germany EvolutionEcolImmunity Sep7-11

Ecological immunology workshop 2022: resistance, tolerance & symbionts, 7-11 September

ABSTRACT SUBMISSION IS NOW OPEN for the above meeting, to be held at Blossin, close to Berlin, Germany. Abstract submission will be open until the 25th March:

https://ssl2.cms.fu-berlin.de/bcp/en/biologie/-arbeitsgruppen/zoologie/ag_rolff/Ecological-Immunology-Workshop-2022/PM.Registration/-index.html â€

The meeting is the next installment in a loose series of workshops on ecological & evolutionary immunology / insect immunity, that started in 2001 in Sheffield, the most recent meeting being held online in 2020. These meetings bring together researchers with different backgrounds but with a shared interest in immunity and host-microbe interactions, and where we encourage the presentation of unpublished results.

The hallmark of these workshops is the open atmosphere, fostering free exchange by keeping it an affordable, small meeting (~85 participants). The format consists of invited speakers, contributed talks and a dedicated poster session. Long breaks provide plenty of opportunity for informal exchange. Past workshops have initiated new collaborations and ideas focusing on frontier research. â€ The premises are basic but in a beautiful location conducive to the success of the meeting. We will be located at a lakeside, which offers great swimming and canoeing, and a small bar on the lakeside. â€ Our invited speakers are: Nicholas Buchon (Cornell University, USA) Delphine Destoumieux-Garzon (University of Montpellier, France) Laura Flórez (University of Copenhagen, Denmark) Brian Lazzaro (Cornell University, USA) Bruno Lemaitre (EPFL Lau-

sanne, Switzerland) Jessica Metcalf (Princeton University, USA) Charlotte Rafaluk-Mohr (Freie Universität Berlin, Germany) Roland Regoes (ETH Zürich, Switzerland) Paul Schmid-Hempel (ETH Zürich, Switzerland) Mike Strand (University of Georgia, USA) Yuko Ulrich (Max Planck Institute for Chemical Ecology, Jena, Germany) Pedro Vale (University of Edinburgh, UK) Heiko Vogel (Max-Planck Institute for Chemical Ecology, Jena, Germany) Bregje Wertheim (Groningen University, The Netherlands) Anna Zaidman-Rémy (Insitute National de Sciences Appliquées, Lyon, France) â€

Important dates:â€ 25th March - Abstract submission deadline 31st March - Decisions on abstracts 14th April - Registration deadline and payment of fees â€ Costs: Includes registration fee, accommodation, and food. €300 Student €350 Non-student

Stipends: We are excited to be able to offer five stipends to female PhD students or post-docs presenting either a poster or a talk at the workshop, and who are working in countries classified by the OECD as low or middle income (<https://www.oecd.org/dac/financing-sustainable-development/development-finance-standards/daclist.htm>). Each stipend will be for up to 1000 EUR. More details are given on our homepage: https://www.bcp.fu-berlin.de/en/biologie/arbeitsgruppen/zoologie/ag_rolff/Ecological-Immunology-Workshop-2022/Stipends/index.html

Please circulate this advert amongst your colleagues. We look forward to receiving your abstracts!

Best wishes from the organisers,â€

Sophie Armitage, Maryam Keshavarz, Luisa Linke, Lea Otte, Jens Rolff & Caroline Zanchi Freie Universität Berlin

We are grateful for funding from the German Research Foundation (Deutsche Forschungsgemeinschaft (DFG) through FOR 5026) for this workshop.

Sophie Armitage

Heisenberg Fellow Freie Universität Berlin Institute of Biology Königin-Luise-Str. 1-3 14195 Berlin <https://armitagelab.com/> Sophie Armitage <saoarmitage@zedat.fu-berlin.de> Sophie Armitage <saoarmitage@zedat.fu-berlin.de>

CIGENE HumanGut Apr6

Hi all!

The next seminar is in just one week and we are thrilled to present our internal speaker; Dr. Sabina Leanti La Rosa, researcher at NMBU, who will present:

Decrypting the mechanism for xanthan gum processing by human gut bacteria through multi-omics and enzymology

Abstract: Microbial communities and their enzymes process many of the “typical” dietary nutrients accessible in the human gastrointestinal tract and play an essential role in host health and nutrition. Eating habits of industrialized countries and gluten-free diets reflect an increasing consumption of processed foods, hence concomitant increased intakes of “atypical” nutrients such as food additives. While often believed to be inert, little is known about the interactions of food additives with the human gut microbiota and their fate in the gut. In this talk, I will present results showing that the human gut microbiota can process xanthan gum, a common food additive used in bakery products, beverages and in gluten-free foods. Metagenomic and metatranscriptomic analyses revealed the presence of a common uncultured Ruminococcaceae genus (R. UCG13) equipped with a gene cluster responsive to xanthan gum. Detailed biochemical studies supported a model whereby extracellular hydrolysis of xanthan gum generates oligosaccharides that are subsequently depolymerized to monosaccharides by a cocktail of intracellular enzymes. In some cases, oligosaccharides produced by the primary degrader R. UCG13 also cross-feed other bacterial populations equipped with their own specific catabolic pathway. A survey of 2441 public human gut metagenomes revealed the broad, diet-specific, distribution of these xanthan utilization loci across the world. Overall, we show that this food additive is not inert and has driven the evolution of interlinked trophic relationships between at least two populations within the human gut microbiota, an adaptation that reflects the incorporation of xanthan gum into human diets in the past 50 years.

Time: Wednesday, April 6th, 12-13 CET Place: This will be an online seminar: Click here for access to the Zoom seminar. < <https://nmbu.zoom.us/j/67064421833> >

For more information, check out the seminar web-

site: <https://cigene.no/cigene-seminar-series/> Marie SAITOU, Ph.D. Tenure-Track Principal Investigator, Centre of Integrative Genetics (CIGENE), Faculty of Biosciences, Norwegian University of Life Sciences <https://sites.google.com/view/saitou-lab> Marie Saito <marie.saitou@nmbu.no>

Cleveland Online Evolution Jun21-28

Registration is now open for EVOLUTION 2022, the joint annual meeting of the ASN, SSB, and SSE.

Evolution 2022 is hybrid: June 21 & 22: virtual conference June 24-28: in-person in Cleveland, OH

For ALL the details and to register: <http://www.evolutionmeetings.org> Highlights * Talk & poster submission are available once you complete main registration. * Talk sign-up is first-come, first-served, with submissions accepted until all slots fill or until May 15, WHICHEVER IS EARLIER. * All posters are accepted until June 1. * Hotel accommodations are open for booking; dorms coming soon. * Conference-ending Super social will be a private event at the Rock & Roll Hall of Fame * Early registration discount ends May 1 * There are several participation/travel support programs; details online * Those hoping to compete for the SSB Mayr or SSE Hamilton awards should pay careful attention to instructions: <https://www.evolutionmeetings.org/student-awards.html> * You must be vaccinated and follow our covid health policies to attend the in-person meeting: <https://www.evolutionmeetings.org/covid-19-information.html> * Plans are in place for free on-site daycare ; final decision in mid- Apr. ahead of early registration deadline

Howard Rundle <hrundle@uottawa.ca>

Groningen BehavBiol Jul20-23

Dear colleagues, Registration is now open for the European Conference on Behavioural Biology, which will be held in Groningen this summer (July 20-23): <https://ecbb22.wordpress.com/> . After a long period of restricted interactions, the theme of the conference is “All

of Life is social!”. We explore the many facets of social life, from proximate to ultimate mechanisms in a wide variety of species. You can submit your contributions (talks and posters) to one of the parallel symposia with themes ranging from social foraging to animal welfare and from cultural evolution to epidemiology - or to one of the open symposia. For symposium information, see <https://ecbb22.wordpress.com/program-2/>. Keynote speakers: David J. Anderson (California Institute of Technology), Nicola Clayton (University of Cambridge), Audrey Dussutour (University Paul Sabatier), Rose Thorogood (University of Helsinki), Peter Kappeler (University of Göttingen), Joel Levine (University of Toronto, Mississauga), Franjo Weissing (University of Groningen).

For more information see <https://ecbb22.wordpress.com/> We hope to see you in Groningen this summer!

The organizing committee Jean-Christophe Billeter, Pleunie Kraak, Martine Maan & Simon Verhulst

Groningen Institute for Evolutionary Life Sciences (GELIFES) <https://www.rug.nl/research/gelifes/> m.e.maan@rug.nl

Helsinki InsectDiseaseEvolution Jul17-22

This symposium is located in the field of interactions and communication between trophic level, in particular the interaction of hosts and their parasites. Within the framework of Insect Disease Evolution and vice versa the Evolution of Host Resistance Mechanisms, we see this symposium very well suited for evolutionary biologists.

We would like to invite submissions to our symposium addressing the field of self-medication in social and solitary insects. The symposium will be held during the International Congress of Entomology (ICE 2022), Helsinki, Finland, July 17-22, 2022.

Symposium: Self-medication in insects (organised by Michael Lattorff and Silvio Erler):

Insects show remarkable abilities to choose and balance their diet. They avoid the uptake of pathogens from the environment with their food. When becoming infected insects are able to shift their diet and use plant derived chemicals to therapeutically heal themselves.

Some insect species might even be able to use such secondary plant products as prophylactic medication to prevent any infection. There is the need to identify common mechanisms across insect orders that promote prophylactic or therapeutic self-medication.

Submissions through this link:

https://registration.contio.fi/ice2022helsinki/-Registration/Login?id=1003-T_1003-10

Deadline for submission of abstracts: March 31, 2022.

More information about the conference: <https://ice2020helsinki.fi/> Dr. Michael Lattorff and Dr. Silvio Erler

“Erler, Silvio” <silvio.erler@julius-kuehn.de>

Krakw Tardigrada Aug22-26

15th International Symposium on Tardigrada | 22-26 August 2022 | Kraków

This August, tardigrade researchers and enthusiasts from all continents will come to the Royal City of Kraków to present and learn about the newest and unpublished discoveries concerning tardigrade taxonomy, systematics, phylogeny, biogeography, ecology, evolution, behaviour, reproduction, development, anatomy, physiology, astrobiology, molecular biology (all of the “omics”), and to hear about potential medical applications of the remarkable tardigrade abilities to survive extreme conditions.

Early Registration for the Symposium is now open!

All details at <https://tardigrada.uj.edu.pl> ukasz Michalczyk Chair of Tardigrada 2022 www.tardigrada.uj.edu.pl krakow@tardigrada.net

Madison Wisconsin Bioinformatics Jul13-14

Announcing BOSC 2022, the 23rd Bioinformatics Open Source Conference

BOSC 2022 dates: July 13-14, as part of ISMB 2022
Location: Madison, WI, USA, and virtual Conference
Website: <https://www.open-bio.org/events/>

bosc/ BOSC announcements mailing list: <https://groups.google.com/forum/#!forum/bosc-announce>
 Slack channel: https://join.slack.com/t/obf-bosc/shared_invite/zt-n5ur1gsj-z2C~69_4YTFPg5tbWA8Ew
 Twitter: @OBF_BOSC, #BOSC2022

Key Dates April 21, 2022: Deadline for submitting talk/poster abstracts. Submit at <https://www.open-bio.org/events/bosc-2022/submit/> May 12: Talk/poster acceptance notifications May 19: Late poster (and Late-Breaking Lightning Talk) submission deadline May 26: Late poster / LBLT acceptance notifications July 13-14: BOSC 2022. July 15-16: CollaborationFest (CoFest)

About BOSC The Bioinformatics Open Source Conference promotes and facilitates the open source development of bioinformatics tools and open science. Since 2000, BOSC has provided a forum for developers and users to interact and share research results and ideas in open source bioinformatics and open science. BOSC's broad spectrum of topics includes practical techniques for solving bioinformatics problems; software development practices; standards and ontologies; approaches that promote open science and sharing of data, results and software; and ways to grow open source communities while promoting diversity within them. As usual, BOSC will include keynote talks, longer and shorter (lightning) talks from submitted abstracts, posters, Birds of a Feather, and more!

New this year: Joint session with Bio-Ontologies! We are excited to announce that BOSC and Bio-Ontologies will join forces for part of a day at ISMB 2022. The joint session will feature keynote speaker Melissa Haendel as well as talks chosen from abstracts submitted to BOSC or Bio-Ontologies. More information at <https://www.open-bio.org/2022/03/03/bosc-and-bio-ontologies-joint-session/> Keynote Speakers Melissa Haendel is the Chief Research Informatics Officer at University of Colorado Anschutz Medical Campus, and Director of the Center for Data to Health (CD2H). With expertise in molecular genetics and developmental biology as well as translational informatics, Dr. Haendel focuses on open science and data integration to improve rare-disease diagnosis and mechanism discovery. She is a leader in ontologies and standards for data sharing.

Lior Pachter is the Bren professor of computational biology at Caltech. He is a Fellow of the International Society of Computational Biology and has been awarded a National Science Foundation CAREER award, and a Sloan Research Fellowship. His research interests span the mathematical and biological sciences, including algorithms, combinatorics, comparative genomics, algebraic statistics, molecular biology and evolution. Dr. Pachter is known as a vociferous advocate of open and

accountable science.

A third keynote speaker will be announced soon! Learn more at <https://open-bio.org/events/bosc-2022/bosc-2022-keynotes> Abstract submission We encourage you to submit abstracts (due April 21) on any topic relevant to open source bioinformatics or open science. After review, some abstracts will be selected for lightning talks, longer talks, or posters. Abstracts that are not chosen for talks will automatically be considered for posters.

Abstract submission will be done using ISMB's EasyChair at <https://www.open-bio.org/events/bosc-2022-submit/>. Note that ISMB requires a short (200-word) text-only abstract for all submissions (talk or poster), plus a "long abstract" (PDF, 2 pages max) if you want to be considered for a talk. A second, later round of submissions will end May 19. Abstracts submitted in the late round will be considered only for posters and a limited number of "late-breaking lightning talk" slots; they are not eligible for longer talks.

Registration fee assistance We realize that the cost of ISMB may be prohibitive for some. If you are submitting an abstract to BOSC and would have difficulty covering the cost of registration, you can request a registration fee waiver right on the abstract submission form (which will not be seen by reviewers). Those who are not submitting abstracts can apply for an OBF Event Fellowship at <https://www.open-bio.org/event-awards> (deadline April 1, 2022).

— / —

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>

McMasterU Canada EvolutionCaenorhabditis Jun20-23

Hello evo-worm community,

The 2022 conference on the Ecology, Evolution and Genomics of *C. elegans* and Other Nematodes is planned for June 20-23 at McMaster University in Ontario, Canada.

Planning to attend?

Please help us by completing a Pre-Registration Form (link below). Completing the form will only take a moment and does not commit you to anything, but will be very useful in helping us plan and set costs.

Here is what we anticipate:

Approximate Registration Costs (meals included):

600 USD (faculty) 500 USD (post-docs) 400 USD (graduate students/technicians) 300 USD (undergraduates)

On-Campus Housing Costs:

Approximately 100 USD / night

Please complete the form by March 25, if possible. Thank you!

LINK TO PRE-REGISTRATION FORM <https://forms.gle/PAG19GiSu9H13tAr6> And you can stay up to date on details via the meeting website, or via Twitter:

MEETING WEBSITE <https://bit.ly/evoworm2022>

TWITTER #evoworm2022

Co-organizers Christian Braendle Bhagwati Gupta Te-Wen Lo Annalise Paaby

Annalise Paaby

Assistant Professor School of Biological Sciences Georgia Institute of Technology

website: genaamics.org

“Paaby, Annalise B” <paaby@gatech.edu>

Naples EuroEvoDevo May31-Jun3 AbstractDeadline

Dear Evo-Devo researchers,

This is a reminder that the abstract submission deadline and the early bird registration deadline for Euro Evo Devo is this Friday, *March 4, 2022*.

Please check <https://www.evodevonapoli.eu/> for additional information, and for registration and abstract submission.

The conference will take place from May 31 to June 3 in the historic city center of Naples, Italy, at the beautiful Stazione Marittima and with satellite meetings at the Stazione Zoologica Anton Dohrn.

We look forward to meeting you all in Italy, to discuss science with good old and new friends alike!

With all best wishes,

The local organizing committee The executive committee of the European Society for Evolutionary Developmental Biology

EED Society <eed.soc@gmail.com>

NHM London EvolutionOfDeuterostomes May12

Fossils, Phylogenies, Genomes, Embryos & the Evolution of the Deuterostomes

A one day symposium to be held at the Natural History Museum, London.

May 12 2022.

Details and sign up here:

<https://www.eventbrite.co.uk/e/fossils-phylogenies-genomes-embryos-the-evolution-of-the-deuterostomes-tickets-228801691017> Hope to see you there.

Best wishes

Max

Max Telford Jodrell Professor of Zoology and Comparative Anatomy Department of Genetics, Evolution and Environment, University College London, Darwin Building, Gower Street, London WC1E 6BT, UK. Tel: +44 (0)20 7679 2554 (Internal: 32554) Fax: +44 (0)20 7679 7096 <http://www.ucl.ac.uk/-biology/academic-staff/telford/telford.html> “Telford, Max” <m.telford@ucl.ac.uk>

Online AlaskaNatHistory May24-26

SEAK2022_Workshop_May24-26

We are pleased to announce SEAK2022 - a virtual Workshop May 24-26 focusing on the natural history of Southeast Alaska, and neighboring regions along the British Columbia coast. We are seeking presentations on climate change, ice sheet dynamics, volcanic geohazards, Ice Age refugia, biodiversity, and biogeographic history.

Please visit the workshop website for more information: <http://www.glyfac.buffalo.edu/Faculty/briner/-SEAK2022/> Registration is free. Deadline for contacting us with a talk suggestion is April 22. Deadline for abstract submission is May 6.

To indicate interest in attending and/or to suggest a

contribution, email jbriner@buffalo.edu

The program will be dictated by those interested in participating. We envision having one day focused on identifying gaps in knowledge about the geologic history, with a focus on past glaciation and volcanism in the Quaternary. We envision another day focused on identifying gaps in knowledge of biodiversity patterns and biogeographic history through the last glaciation and across the Holocene. We plan to make time for break-out discussions that will lead to a workshop report that identifies key gaps in knowledge, and how to fill them.

Best wishes from the organizers,

Charlotte Lindqvist Jason Briner University at Buffalo

Charlotte Lindqvist, PhD Associate Professor Department of Biological Sciences University at Buffalo (SUNY), Buffalo, NY 14260 Cl243@buffalo.edu

Charlotte Lindqvist <cl243@buffalo.edu>

Online CIGENE Mar39

Hi All,

The next CIGENE seminar speaker is Dr. Jos? Cerca, NTNU. He will give a talk entitled: A chromosome-resolved genome of Darwin's giant daisy trees (Scalesia; Gal?pagos endemics) shows the genomic basis of the plant island syndrome

Time: Wednesday, March 30th, 12-13 CET

Abstract: Oceanic archipelagos comprise multiple disparate environments in small areas, and home few species per area. These elements set in motion some of the most spectacular adaptive radiations, thus offering a unique chance to characterise the genomic basis underlying changes in morphology, ecology and physiology. Plants in oceanic archipelagos often undergo changes in leaf morphology, acquire perennial life habits, readjust their chemical ecology, and change their ploidy (i.e. island syndromes). In this talk, I will present the genome of the critically endangered *Scalesia atractylodes*, a member of Darwin's giant daisy tree radiation in the Gal?pagos. We obtained a chromosome-resolved 3.2-Gbp assembly with 43,093 candidate genes. We identified the two ancestral (sub)genomes coming together in the allopolyploidization event, and date their divergence. We found signatures of selection across genes associated with vascular development, life-growth, adaptation to salinity and changes in flowering time, finding evidence

for genomic adaptation associated with transitions to insular life (island syndromes).

This will be an online event. Contact us to receive the meeting link. <https://cigene.no/cigene-seminar-series/> Best,

Marie

Marie SAITOU, Ph.D. (Still accepting postdoc applications! - by March 27th.)

Tenure-Track Principal Investigator, Centre of Integrative Genetics (CIGENE), Faculty of Biosciences, Norwegian University of Life Sciences <https://sites.google.com/view/saitou-lab> marie.saitou@nmbu.no

Online CIGENE SexualSelection Mar16

Hi all, The next CIGENE seminar speaker is Prof. Dr. Stefan Li₂pold, University of Zurich. He will give a talk entitled: Post-mating sexual selection depends on many players

Abstract: When a female mate with multiple males, paternity success may depend on complex interactions between both the female and the competing sperm of her mates. Such interactions have been identified as potential sources of genetic variation in sexually selected traits but are also expected to inhibit trait diversification. Unlike widely studied genotypic interactions, little is known about how phenotypic variation in sexually selected traits may contribute to their outcome. Using fruit flies as an example, I will disentangle the complex interactions between both male and female traits known to influence competitive fertilization. And I will demonstrate that these interactions do not limit the ability of multivariate systems to respond to directional sexual selection, including the evolution of gigantic sperm.

Time: Wednesday, March 16th, 12:00-13:00 CET Place: This will be an online seminar: Click here for access to the Zoom seminar. < <https://nmbu.zoom.us/j/67064421833> >

For more information, check out the seminar website: <https://cigene.no/cigene-seminar-series/> ** We are looking for a postdoc!!! By 3/27**

– Marie SAITOU, Ph.D. Tenure-Track Principal Investigator, Centre of Integrative Genetics (CIGENE), Faculty of Biosciences, Norwegian University of

Life Sciences <https://sites.google.com/view/saitou-lab>
 Marie Saito <marie.saitou@nmbu.no> Marie Saito
 <marie.saitou@nmbu.no>

PennsylvaniaStateU EvolMicrobiomes May31-Jun3

On behalf of the organizing committee at Penn State University, we would like to invite you to the upcoming symposium 'Changing Microbiomes' held May 31st-June 3rd, 2022, in Boalsburg, PA. Please distribute this notice to members of your lab, department, and microbiome research community that would be interested in attending the symposium!

Microbiome ecological and evolutionary changes underlie current and future biogeochemical fluxes, agricultural sustainability, and human health. This meeting will bring together researchers working to transition towards functional and process-driven microbiome research in natural and managed systems.

The meeting has a fantastic line-up of invited speakers and will provide plenty of opportunities for networking and interaction. See our conference website (<https://web.cvent.com/event/a56d208e-95a8-419c-a431-80aad460a379/summary>) for additional information. The deadline for oral presentation abstract submission is March 15th, and the poster presentation deadline is April 15th. Early Bird registration rate closes on April 1st.

To make this conference accessible, we have secured funding to keep costs low. Registration includes meals. We can also offer about 20 attendees presenting a poster or oral presentation grants to cover registration, lodging, and travel. Attendees can apply to be considered for this support during abstract submission < <https://cvent.me/BxOQPb> >. Eligible applicants include all 1) early career researchers (students and postdocs), 2) researchers regardless of stage at PUI's, HBCU's, HSACU's, TCU's, PMSI's, and 3) individuals who are members of underrepresented or marginalized populations in STEM. To be eligible, submit your abstract and application materials by March 15th. Contact liana.burghardt@psu.edu with additional questions about travel grants.

Thanks for your consideration,

Symposium Organizers:

Corien Bakermans

Terrance Bell
 Mary Ann Bruns
 Liana Burghardt
 Estelle Couradeau
 Emily Davenport
 Francisco Dini-Andreote
 Kevin Hockett
 Siela Maximova

Emily R. Davenport, Ph.D. | Assistant Professor Penn State University | Department of Biology | Wartik Laboratory - Room 305 <https://davenport-lab.github.io/> | Twitter: @emo_davenport

Emily Davenport <emily.davenport@psu.edu>

Prague CombinatorialRapidSpeciation Aug14-19

Open call for abstracts for our symposium at ESEB 2022 in Prague (14-19 August): "A combinatorial view on rapid speciation - the role of ancient genetic variants and hybridisation" (S05).

Abstract submission currently open, deadline 15 April 2022.

Symposium description: Recent genomic advances have revealed that hybridisation is much more common than previously thought and the genetic variants that directly contribute to rapid speciation or adaptation often are the result of introgression between species. These recent findings provide an answer to the puzzle of rapid speciation and how in adaptive radiations, multiple successive speciation events can occur in rapid succession. An important role of ancient genetic variants has recently been confirmed in many classic cases of rapid adaptation and speciation such as those of Darwin's finches, Hawaiian silverswords, Heliconius butterflies, East African cichlid fishes, stickleback fish, or Caribbean pupfishes. Combinatorial speciation using ancient genetic variants circumvents long wait times for adaptive mutations and the slow buildup of reproductive isolation through accumulating incompatibilities. This symposium aims to show the commonalities of these classical study systems but also highlight less well-known cases of rapid speciation and adaptive radiation where an important role

of old genetic variants has been found. We seek to understand how widespread combinatorial speciation may be and how it interacts with other processes that can enhance speciation rate, such as sexual selection. We are committed to making a diverse symposium in terms of speakers, study systems, and methods.

We especially encourage submission from early career researchers and historically underrepresented groups. Submit via the website: <https://www.eseb2022.cz/en/call-for-abstracts-page> Keynote speakers: Loren Riesberg (University of British Columbia), Emilie Richards (UC-Berkeley)

Organizers: Genevieve Kozak (University of Massachusetts-Dartmouth) Joana Meier (University of Cambridge) David Marques (Natural History Museum Basel)

For additional information, contact Genevieve Kozak, gkozak@umassd.edu

Genevieve M Kozak <gkozak@umassd.edu>

Prague EvolutionOfSenescence Aug14-19

Dear colleagues,

We are happy to announce our ESEB 2022 symposium “How have biomarkers improved our understanding of health and the evolution of senescence?” (S34) in Prague, 14-19 August 2022.

Abstract submission deadline: 15 April 2022 <https://www.eseb2022.cz/en/call-for-abstracts-page> INVITED SPEAKERS Britt Heidinger, North Dakota State University (<https://sites.google.com/site/heidingerlab/home>) Julien Martin, University of Ottawa (<https://juliengamartin.github.io>)

SYMPOSIUM SUMMARY As individuals reach older ages their bodies deteriorate - a process known as senescence. Individuals within the same species can differ greatly in the age they start to senesce, and the rate at which they senesce. However, why individuals senesce so differently remains unresolved and this is one of the biggest unanswered questions in evolutionary biology. Understanding the drivers of senescence has important ramifications for veterinary medicine, conservation, health and society, as it could help individuals to live longer, healthier lives. This symposium will seek to address this knowledge gap by bringing together re-

searchers with expertise in senescence from theoretical, laboratory and field settings. In particular it will focus on how our understanding of health and the evolution of senescence has been altered with the development of indicators and biomarkers of senescence such as epigenetic clocks and telomeres. Biomarkers have shed light on the relative impact of social, environmental, genetic and trans-generational effects on senescence. A better understanding of advances in the evolutionary theory of senescence, the occurrence and life-history consequences of senescence, and the underlying genetic and non-genetic mechanisms will significantly further the field. This knowledge is vital to understanding why senescence has evolved and how it is maintained.

SYMPOSIUM ORGANISERS Hannah Dugdale, University of Groningen (<https://hannahdugdale.wordpress.com>)

Julia Schroeder, Imperial College London (<https://www.imperial.ac.uk/people/julia.schroeder>)

Janet Chik, University of Groningen (<https://www.rug.nl/staff/h.y.j.chik>)

Tom Brown, University of East Anglia (<https://researchportal.uea.ac.uk/en/persons/thomas-brown>)

ESEB CONGRESS ATTENDANCE GRANTS ESEB Equal Opportunities Conference Attendance Grant: <https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/> ESEB Student and Early-Career Researcher Conference Travel Award: <https://eseb.org/prizes-funding/conference-travel-award/> Looking forward to seeing you in Prague! Hannah, Julia, Janet & Tom

Hannah Dugdale <h.l.dugdale@rug.nl>

Prague omicsApproaches Aug13-14

Integrating -omics approaches for eco-evolutionary research We are thrilled to announce the DrosEU/ESEB STN Summer school on “Integrating -omics approaches for eco-evolutionary research” that will take place on 13-14 August 2022 in Prague, immediately before the ESEB 2022 meeting (<https://www.eseb2022.cz>) <<http://evolutionmontpellier2018.org/>>.

Omics analyses hold great promise to understand both ultimate and proximate causes of phenotypic adaptation at different hierarchical levels, and cutting-edge technological advances now bring these analyses within

reach of a growing number of researchers. Especially gene expression analyses have been widely adopted, providing valuable insights into the mechanisms of evolution. Rapid developments in RNAseq have resulted in a plethora of different approaches to analyze gene expression patterns, facilitating analyses of whole organisms or targeted organs, but now also at the resolution of single cells. In addition, recently emerging -omics approaches, such as proteomics and metabolomics, provide opportunities to better understand the trajectories from genotypes to phenotypes.

The summer school aims to foster constructive discussion on the application of -omics approaches for evolutionary studies in a variety of study systems in a small-scale setting. The school is organized by the European Drosophila Population Genomics Consortium (DrosEU; <http://droseu.net/>) and sponsored by the European Society for Evolutionary Biology (ESEB) STN. The summer school is meant to complement the symposium on Adaptation Genomics (S24) at ESEB. Although DrosEU focuses on Drosophila, the research questions, methodological approaches and the conceptual issues addressed by our consortium apply to many species beyond the Drosophila model.

We will welcome approximately 30-40 people, especially students and postdocs from within and outside the DrosEU community, as well as invited speakers who are leaders in the field, to our mini-summer school that will start on Saturday morning and end on Sunday around lunch time. There will be 3 invited speakers, 9 contributed presentations by PhDs or post-docs, and a poster session. The poster session is primarily meant to initiate discussion on approaches and experimental design, hence we especially welcome posters with preliminary data or a study design. By bringing together researchers that apply different -omics techniques and working on different model systems, we aim to promote a stimulating discussion on where the challenges and opportunities lie within this field.

Registration is open to everyone on a first come first served basis, but priority will be given to PhD students and postdocs attending the ESEB 2022 conference. The workshop will be free of charge, but lunch and dinner are not included. Link to the registration website: <https://forms.gle/cCSPWtZWexZKTYvAA> We look forward to seeing you in Prague!

The organizing committee: Esra Durmaz [Fribourg], Pau Carazo [Valencia], Katja Hoedjes [Amsterdam], and Jindrich Brejcha [Prague] on behalf of DrosEU

Contact: [esradurmaz \[at\] gmail.com](mailto:esradurmaz@gmail.com), please add "Summer School" to the subject line

Invited speakers

§Isabel Almudi [University of Barcelona, Faculty of Biology] <https://www.mayflyecoevodevo.com/> §Sonja Grath [Ludwig-Maximilians-Universität München] <https://evol.bio.lmu.de/research/grath/index.html>

§3rd invited speaker to be confirmed

Pau Carazo <pau.carazo@uv.es>

Prague Phenotypic Plasticity Aug14-19 CallForAbstracts

Dear colleagues,

Announcing ESEB 2022 Symposium (S22)

*PHENOTYPIC PLASTICITY'S IMPORTANCE IN EVOLUTION: SAME OLD DOG OR NEW TRICKS?

*We are welcoming submissions for our symposium at the Congress of the European Society for Evolutionary Biology < <https://www.eseb2022.cz> > in Prague (*August 14-19 2022*). Why old dogs and new tricks? See abstract below! The symposium is focused on making progress resolving controversy about potential or realised evolutionary consequences of phenotypic plasticity. We encourage empirical and theoretical talks on that topic and look forward to a diversity of study systems, methodological approaches, and speakers. **

Symposium S22 < <https://www.eseb2022.cz/en/-symposia> >: Phenotypic plasticity's importance in evolution: Same old dog or new tricks?

The role of phenotypic plasticity in evolution has been debated for over a century, but there is still no consensus about its general effects on processes such as adaptation and speciation, or more importantly, whether plasticity's causal impact on the evolutionary process is comparable to factors such as direct environmental change, ecology, selection, genetic mutation, etc. Arguments for a strong role in evolution have been given renewed attention recently, and form an important basis for calls to "extend" basic evolutionary theory. However, these ideas have attracted considerable criticism. Is the substantial research attention paid to the role of plasticity in evolution warranted by its actual importance? We will address this question by undertaking a critical synthesis based on recent theoretical advances and empirical findings. With this symposium we will bring together scientists studying evolutionary causes and consequences of phenotypic plasticity from a wide variety of research traditions, with emphasis on narrowing the data-theory

gap. The symposium and a potential associated target review in *Journal of Evolutionary Biology* are intended to re-focus this subfield of evolutionary biology, and identify research priorities for the future that capitalize on advances in genetics, behaviour and theoretical modelling.

INVITED SPEAKERS We are delighted to announce our symposium speakers: ***Amanda Bretman*** < <https://biologicalsciences.leeds.ac.uk/school-of-biology/staff/36/dr-amanda-bretman> > (University of Leeds, UK) and ***Luis-Miguel Chevin*** < <https://www.cefe.cnrs.fr/en/research/evolutionary-ecology/genetique-et-ecologie-evolutive-3/800-french/-recherche/ee/gee/c/474-luis-miguel-chevin> > (CEFÉ, Montpellier, France).

ABSTRACT SUBMISSION Abstracts can be submitted here < <https://www.eseb2022.cz/en/call-for-abstracts-page> >. The deadline for abstract submission is ***April 15th 2022***. Feel free to contact Nathan Bailey (nwb3@st-andrews.ac.uk) or Camille Desjonquères (cdesjonqu@gmail.com) if you have any questions regarding the symposium.

TRAVEL AND AID GRANTS Information on student and ECR travel stipends is here < <https://eseb.org/-prizes-funding/conference-travel-award/> >. Information on Congress Attendance Aid Grants can be found here < <https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/> >.

All the best, Nathan and Camille

Camille Desjonquères <cdesjonqu@gmail.com>

Prague PlantEvolution Sep20-22

Dear colleagues and students,

Are you or do you know a Bachelor/Master/PhD student willing to network with and present their work to peers?

PhD students from the departments of Botany and Experimental Plant Biology of Charles University in the Czech Republic and the Institute of Botany of the Czech Academy of Sciences are organizing a Conference on Plant Biology for students, by students!

Why joining?

- keynote speakers with different levels of experience: Antonin Machac (Postdoctoral Fellow at Copenhagen

University, Denmark), an early career scientist, with whom to get early career advice and network; Claudia Köhler (Department Director at Max Planck, Germany), an established and world famous researcher, to learn about and get inspired by broad questions in biology.

- an opportunity to present your work as a students for a talk or a poster

- workshops on soft skills training

- Substantial time dedicated to networking and socialising

- Located in the beautiful city of Prague

- It is free!

More info:

<https://plantbioconference.wordpress.com/> Twitter @student_conf22

Deadline to register: 1st of June. Don't miss your chance!

Organization & scientific committee: Iris Sammarco, Susnata Salony, Ámer Íltas, Mohammad Javad Haghhighatnia, Juan Manuel Gorospe, Lorena Meusel, María Pinilla Vargas

We are looking forward to meet you in Prague in September!

Best regards,

Student Conference of Plant Biology organising committee

Juan Manuel Gorospe

Univerzita Karlova PÅírodovÅdecká fakulta Albertov 6, 128 43 Praha 2 www.natur.cuni.cz Charles University Faculty of Science Albertov 6, 128 43 Praha 2 www.natur.cuni.cz/en Juan Manuel Gorospe Ballesteros <degorosj@natur.cuni.cz> Juan Manuel Gorospe Ballesteros <degorosj@natur.cuni.cz>

Prague PredatorCognitionPreyDefences Aug14-19

Dear colleagues,

Our ESEB 2022 symposium “Predator cognition and the evolution of prey defence strategies” (S.16) is now open for abstract submissions (see <https://www.eseb2022.cz> for further details)and registration.

The meeting will be held in Prague, Czech Republic on 14-19 August 2022.

Symposium description: Animals employ numerous strategies to avoid predation, and the evolution of camouflage, aposematism, mimicry and other forms of antipredator defence is at the core of research interest of evolutionary biologists. As shown by recent studies focused on interactions between prey defences and predator cognitive mechanisms, understanding the selective forces driving the evolution of prey defence strategies requires studying their coevolution with predator perception, cognition, and subsequent behavioural responses. Furthermore, these studies have also highlighted the importance of studying predator cognition in ecologically relevant settings and testing behavioural responses in addition to investigating sensory capabilities. This approach has made it possible to address new questions, such as what factors influence predator decisions to attack potentially dangerous prey, how prey defences and predator cognitive mechanisms interact through the predation sequence, how predators respond to multicomponent and multimodal defences, and how predators use individual and social information about prey. This symposium aims to bring together current experimental, comparative and theoretical approaches to study interactions between predator cognitive mechanisms and prey defence strategies, identify the factors shaping predator behavioural responses, establish critical gaps in our understanding of the evolution of antipredator defences, and outline directions for future research.

Our keynote speakers are Johanna Mappes (University of Helsinki) and Tom Sherratt (Carleton University).

Abstracts can be submitted on: <https://www.eseb2022.cz/en/call-for-abstracts-page>. The call is open until the 15th of April 2022.

Early-bird registration is open until the 15th of June 2022.

ESEB also proposes a conference attendance aid grant. For further details, see: <https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/>

Should you have any questions or for further information please contact us.

All the best, Bibiana & Alice

Alice Exnerova Department of Zoology, Charles University, Prague, Czech Republic exnerova@natur.cuni.cz

Bibiana Rojas Department of Interdisciplinary Life Sciences, Konrad Lorenz Institute of Ethology, University of Veterinary Medicine, Vienna, Austria bibiana.rojas@vetmeduni.ac.at

alice.exnerova@natur.cuni.cz
ice.exnerova@natur.cuni.cz

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Quebec City Evolution Fungal Pathogens May 25-26

We are happy to invite you to the SMBE Satellite Meeting on the Evolution of Fungal Pathogens in Québec City, May 25-26, 2022.

Fungal pathogens impose great challenges in health care, agriculture, and forestry. This meeting aims to bring together researchers at all career stages studying clinical, agricultural, and environmental fungal pathogens to share their perspectives on how fungal pathogens evolve and how can they be controlled.

Registration Period 15 March (7AM EST) - 15 April (11.30PM EST)

Invited Speakers

Christina Cuomo, Broad Institute Population genomics and the evolution of virulence traits in *Cryptococcus neoformans*

Bin He, Iowa University Parallel expansion and divergence of the Hyr/Iff-like (Hil) adhesin family in opportunistic yeast pathogens

Charissa De Bekker, University of Central Florida Hijacking behavior: Connecting fungal genomes with animal host phenomes using zombie ants as a model

Richard Hamelin, University of British Columbia Evolution of fungal forest pathogens

We minimized registration costs (\$100) and offer multiple oral talk formats.

We offer 10 travel awards for PhD students and Postdoctoral fellows from Low- and Middle-Income countries to attend and present their work (\$1000 + registration + accommodation).

Find more information here:

<https://event.fourwaves.com/smbe-meeting-evolution-of-fungal-pathogens/pages> Come visit us in beautiful Québec City.

For more information, contact us at [evofunpath\[at\]bcm.ulaval.ca](mailto:evofunpath[at]bcm.ulaval.ca)

We thank our- Major sponsors: SMBE, NSERC and FRQNT Other sponsors: Université Laval (Biologie),

PROTEO, IBIS, Qui $\frac{1}{2}$ bec Citi $\frac{1}{2}$, VWR, Eurofins
 Christian Landry <Christian.Landry@bio.ulaval.ca>

<https://www.metazomics.com/> . Rosa Fernandez, <https://www.shh.mpg.de/person/54587/935000> For more information and abstract submission, visit the website at: <https://mceb2022.sciencesconf.org/> Olivier GASCUEL <olivier.gascuel@mnhn.fr>

Switzerland

MathComputationalEvol Jun26-30

Mathematical and Computational Evolutionary Biology (MCEB), June 26-30 2022 June 26-30 – Chateau d’Oex, in the Switzerland mountains, near Lausanne.

<https://mceb2022.sciencesconf.org/> Dates and deadlines:

April 15: Pre-registration and abstract submission on conference web site
 April 25: Notification of decisions to applicants
 May 5: End of registrations and payment (~550 euro , including accomodation)
 June 26 (evening) - 30 (early afternoon): Conference

This year’s edition of MCEB is special as it will take place in Switzerland, unlike previous editions of that conference that alternated between Montpellier’s back-country and Porquerolles island. We will cover several scientific themes, focusing mainly on cancer evolution, phylodynamics, phylogenomics and mathematical phylogenetics. In particular, we will see how new models and algorithms deal with the huge amount of genetic data available nowadays in order to improve our understanding of the mechanisms governing evolution at multiple scales.

Beyond this year’s themes, general concepts, models, methods and algorithms will be presented and discussed, just as in the previous editions of MCEB. As usual, the meeting will bring together researchers originating from various disciplines: mathematics, computer science, phylogenetics, population genetics, epidemiology, ecological modeling... Keynote speakers will introduce a field of research and discuss their own work in this field (see below). Afternoon will be for short presentations and posters, with plenty of time for discussions. We will stop early every day, thus leaving time for other activities, such as hiking.

Keynote speakers :

. Cécile Ane, <https://botany.wisc.edu/staff/ane-cecile/> . Maria Anisimova, <https://www.zhaw.ch/en/about-us/person/anis/> . Niko Beerenwinkel, <https://bsse.ethz.ch/departement/people/detail-person.MTQ5NDE3.TG1zdC8yNjY5LDEwNjI4NTM0MDk=.html> . David Bryant, <http://www.maths.otago.ac.nz/>

UCalifornia SanDiego

RECOMB-CG May20-21

CallForPosters

The 19th RECOMB Satellite Conference on Comparative Genomics

RECOMB-CG 2022 University of California at San Diego, La Jolla, USA May 20-21, 2022 Poster Submission Deadline: April 8, 2022

The RECOMB-CG satellite conference, founded in 2003, brings together leading researchers in the mathematical, computational and life sciences to discuss cutting edge research in comparative genomics, with an emphasis on computational approaches and novel experimental results. The program includes both invited speakers, contributed talks and poster sessions.

Contributions on any theoretical and/or empirical approach to genome-wide comparison are welcome. Topics of interest include genome evolution, population genomics, genome rearrangements, genomic variation, diversity and dynamics, phylogenomics, comparative tools for genome assembly, comparison of functional networks, gene identification or annotation, cancer evolutionary genomics, comparative epigenomics, paleogenomics, epidemiology and related areas. We encourage submissions that offer new biological findings or otherwise highlight their relevance to biology.

We sollicit high-quality poster abstracts on novel computational or experimental results that fall within the general scope of the conference.

Key Dates

Poster submission deadline: Friday, April 8, 2022
 Author notification for posters: Friday, April 22, 2022

Registration open: Monday, March 14, 2022

Conference starts: Friday, May 20, 2022
 Conference ends: Saturday, May 21, 2022

Keynote Speakers

Aoife McLysaght (University of Dublin, Ireland) Rachel

Dutton (University of California at San Diego, USA)
Nandita Garud (University of California at Los Angeles, USA)

Submission Guidelines

Submitted abstracts must be at most 2 pages in length including references and figures, in PDF format according to the LNBI guidelines. See the <https://recombcg2022.usask.ca/> for more details.

All submissions must be made online, through the EasyChair submission system, at the following address:

<https://easychair.org/my/conference?conf=3Drecombcg2022> At least one author of each accepted poster will be expected to attend the conference and present the poster.

lingling.jin@cs.usask.ca

On behalf of the organizing committee, we look forward to seeing everyone in May!

Dr. Wen-Juan Ma

Senior Postdoctoral Research Associate

4012 Haworth Hall Department of Molecular Bioscience
The University of Kansas 1200 Sunnyside Avenue
Lawrence, Kansas 66045 USA

My website: <http://www.wenjuanma.com/> Twitter: @WenJuanMa84

Wen-Juan Ma <wenjuanma84@gmail.com>

UKansas Genomics May20

Conference: KU Center for Genomics 1st Annual Research Symposium, May 20, 2022

Dear Colleagues,

It is our pleasure to invite you to the 1st Annual Research Symposium hosted by the KU Center for Genomics. The meeting will be held in person on Friday, May 20, 2022 at Maceli's Banquet Hall in Lawrence, KS. The symposium aims to highlight genetics and genomics work by researchers at regional institutions in diverse fields from evolutionary biology to anthropology to engineering. There will be a special oral presentation session focusing on microbial genomics, and we will have an exciting keynote talk from incoming University of Minnesota Assistant Professor, Helen Vuong on "Understanding microbiome and nervous system interactions."

We invite anyone including postdocs, graduate students, research staff, undergraduates, and faculty to apply to present their work via poster or oral presentation. Abstracts are due April 4 for oral presentations, and April 11 for poster presentations. The event is free for anyone to present or attend. Online viewing of oral presentations will also be available.

For additional information about the symposium including registration information, please see the attached flyer or follow this link. Please feel free to forward this to anyone who may be interested. If there are any questions or comments, please direct them to kucg@ku.edu.

UNotreDame ArthropodGenomics Jun9-11

Taking place at the University of Notre Dame, this year's Arthropod Genomics Symposium will focus on new insights gleaned from analyzing arthropod genomes and is designed for scientists interested in genomic studies of arthropods, including arthropod vectors of disease, model organisms and those of agricultural relevance.

For more information about the Symposium and a link to register, click here < <https://event.me/qvLA93> >.

Notre Dame Conference Center <CCE.CCE.1@nd.edu>

Wellcome VirusGenomicsEvolution Nov9-11

Dear EvolDir,

Join us for

Wellcome Connecting Science | Virus Genomics and Evolution 2022

Date: 9-11 November 2022

This conference will provide a multidisciplinary forum for researchers interested in the genomics and evolutionary analysis of viruses. The meeting will address the fundamental questions of viral evolution, transmission and pathogenesis. It will showcase advances in viral genomics, bioinformatics and sequencing technology, as well as methodologies for large viral dataset analysis. The application of viral genomic studies for patient man-

agement and public health will be explored. Genomics of epidemic and non-epidemic viruses, emerging viral infections and pathogen discovery will be covered, in addition to SARS-CoV-2.

For registration and the final programme, please visit: <https://coursesandconferences.wellcomeconnectingscience.org/event/virus-genomics-and-evolution-20221109/>

Scientific Programme Committee M Kate Grabowski - Johns Hopkins University, USA Christian Happi - Redeemer's University, Nigeria Katrina Lythgoe - University of Oxford, UK Emma Thomson - University of Glasgow, UK

For questions, please contact: conferences@wellcomeconnectingscience.org

– The Wellcome Sanger Institute is operated by Genome Research Limited, a charity registered in England with number 1021457 and a company registered in England with number 2742969, whose registered office is 215 Euston Road, London, NW1 2BE.

Jane Murphy <jane.murphy@wellcomeconnectingscience.org>

Yosemite Natl Park Symbiosis May13-15

REGISTRATION NOW OPEN

Dear Colleagues,

After a two-year absence, The TENTH annual Yosemite Symbiosis Workshop will take place on May 13th-15th, 2022 at the Sierra Nevada Research Institute, Yosemite National Park. We have really missed having this meeting over the last two years. In the previous nine years, this meeting became a great venue for a diversity of symbiosis researchers. We hope to continue to attract a diverse group in 2022!

Keynote speaker 2022: Michelle Nishiguchi, UC Merced
COVID19 Safety:

Attendees will be required to attest to full vaccination status against SARS-CoV2 during the registration process.

Rapid antigen tests will be made upon arrival at the conference (provided by us) to provide an extra layer of safety for attendees

The meeting will occur indoors, and masks will be re-

quired during meeting sessions when the opportunity for social distancing will be limited.

Meals, and coffee/snack breaks will be provided outside weather permitting. Temperatures in mid-May are usually mild, but there is always some chance that it will be cold and or rainy during the meeting.

Information about our meeting:

Why attend?

Our continuing goal is to better integrate the broad groups of scientists that focus on symbiosis research. Yosemite serves as an ideal site as it is both beautiful and secluded. This will be our 10th annual meeting and we have been consistently attracting scientists from all over the country and overseas.

Who will be there?

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

When is the meeting?

The talks and formal meeting will be held May 14th and 15th, 2022, though we make accommodation arrangements available for attendees to arrive on Friday the 13th to provide opportunities to enjoy the park. There will be a welcome party on the evening of arrival, Friday May 13th. Since time at the conference is limited, we ask attendees to submit an abstract and a preference (talk versus poster). Priority will be given to those presenting. Abstract and early bird registration will be due on March 1st, 2022.

Where is the meeting?

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

What will it cost?

Advanced Registration (deadline April 1st, 2022) Students: \$230, Postdocs \$250, PIs \$300 Late registration (deadline April 19th, 2022) Students: \$260, Postdocs \$280, PIs \$330

Registration AND payment page is here: <https://snri.ucmerced.edu/form/symbiosis-workshop-2022>
Please make sure to REGISTER first then PAY

Please direct any questions to the organizers:

Joel Sachs joels@ucr.edu

A. Carolin Frank cfrank3@ucmerced.edu

Joel L. Sachs (he, him, his) *Professor, *Department of Evolution Ecology & Organismal Biology University

of California, Riverside Office (951) 827-6357 / Fax (951) 827-4286 / www.sachslab.com *Post address*: Sachs Lab - UC Riverside 3401 Watkins Dr., 1229 Spieth Hall, Riverside, CA 92521

Joel Sachs <joels@ucr.edu>

GradStudentPositions

ArkansasStateU PlantEvolutionaryGenomics 18	SGN Frankfurt 2 MutationEvolution 33
AustralianNatU ConservationGenomics 19	SGN Frankfurt EvolutionaryEcotoxicology 34
BielefeldU MushroomGenomics 20	SGN Frankfurt MarineBiodiversity eDNA 35
CharlesU AllopolyploidEvolution 21	SGN Frankfurt MutationRateEvolution 36
CharlesU Prague EvolutionGenomicsFishes LASTcall 22	StockholmU Palaeogenomics 37
CheetahConservationFund Namibia ConsGenetics . 22	Tours France InsectsEvolutionPesticides 38
CityU London CancerEvolution 23	UBern Biodiversity 39
CzechAcademy 2 PopulationGenetics 24	UCalgary AdaptationTheoryGenomics 40
Frankfurt ComparativeVertebrateGenomics 24	UFribourg 2 ComputationalBiology 40
KielU 14 TranslationalEvolutionaryResearch 25	UHelsinki 7 ForestTreeGenomics 41
LinnaeusU FishAdaptation 27	UKonstanz LaplandBirdBehaviour 42
Macaronesia BirdSongEvolution 28	ULausanne EvolutionaryConservationBiol 43
Macaronesia EvolutionBirdSong 29	UNeuchatel ComparativeGenomicsButterflies 44
MaxPlanckInst Jena HostDiseaseBehaviour 29	UParis Saclay TransposableElementsAdaptation ... 44
MichiganTechU PlantEvolution 30	USBohemia Czechia EvolutionaryGenomicsButterflies 45
MontpellierU MarineEvolution 31	USussex JohnMaynardSmithStudentship 46
MPIO Seewiesen EvolutionCognition 32	UTartu Estonia HumanPopGenetics 47
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ArkansasStateU PlantEvolutionaryGenomics

Plant Evolutionary Genomics Master's Student Position at Arkansas State University The Bellis & Marsico Labs are seeking a Master's student interested in plant evolutionary genomics, with a desire to study the evolutionary ecology of invasive grasses that alter fire regimes. Specifically, we are seeking a driven student interested in studying the genomic diversity of wild sugarcane (*Saccharum spontaneum*), a Federal Noxious Weed, that is an emerging concern in the USA. The student will conduct genomic sequence analysis to characterize the

origins of naturalizing wild sugarcane populations and their hybrids and to understand mechanisms of adaptation to novel environments in the southeastern USA.

This project is part of our ongoing collaborative research with Dr. Rima Lucardi (USDA Forest Service) that previously identified wild sugarcane as the most abundant taxon hitchhiking into the USA on air-intake grilles of refrigerated shipping containers (Lucardi et al. 2020). In addition to genomic analysis, there is potential to contribute to field work, greenhouse experiments, and vascular plant identification for the broader collaborative project depending on student interests.

A Bachelor's degree in botany, biology, genetics, bioinformatics, data science, computational biology, computer science, or related field is required. Applicants should have a strong desire for scientific discovery, a thirst for

adventure, and a knowledge of or willingness to learn programming (R and/or Python) and command-line tools for genomic analysis.

Funding for this position is provided through a combination of a teaching assistantship and through a research assistantship funded through the USDA Forest Service and includes a tuition waiver. Summers are fully covered.

Applicants who are members of historically minoritized communities including Black/African American, Indigenous, Latinx, LGBTQIA+, and/or first-generation college students are particularly encouraged to apply. The successful applicant should plan to begin in August 2022 or January 2023, though there is a possibility to start as an hourly employee prior to beginning graduate school.

Arkansas State University is a comprehensive, state-supported, doctoral university with high research activity (R2). The Department of Biological Sciences has nearly 500 undergraduate and 60 graduate students across Biology, Environmental Sciences, and Molecular BioSciences graduate programs. Jonesboro is a community of nearly 80,000 people located in Northeast Arkansas, amidst the Mississippi Alluvial Plain and Crowley's Ridge ecoregions. We are an hour away from Memphis, Tennessee, and the Ozark Highlands. Jonesboro is a regional center for quality healthcare, and it has a variety of dining and entertainment options, a low cost of living, and plenty of recreational opportunities.

You can learn more about the Bellis and Marsico labs at <https://em-bellis.github.io> and www.travismarsico.com.

If you plan to apply, please send an email to ebellis@astate.edu that includes 1) a cover letter describing your interests, career goals, and relevant research experiences and skills; 2) your Curriculum Vitae [including names and contact information for three references]; and 3) a copy of your academic transcripts (unofficial copies are acceptable). Review of requested pre-application materials listed above will begin on March 15, 2022 and continue until position is filled.

Emily S. Bellis, Ph.D.

Assistant Professor of Bioinformatics Arkansas State University

Associate Director & Division Lead Center for No-Boundary Thinking Division of Biological Systems

web: <https://em-bellis.github.io> email: ebellis@astate.edu

Emily Bellis <ebellis@astate.edu>

AustralianNatIU ConservationGenomics

This project will suit a student with an interest in conservation genetics, molecular biology and bioinformatics

The Lord Howe Island stick insect, thought to be extinct but recently rediscovered, has become emblematic of the dangers faced by island species in the face of anthropogenic change. A planned reintroduction effort aims to rescue this species, one of the rarest insects in the world, from the brink of extinction. Our aim is to explore the unique genome biology of this insect, and use it as a model for adaptation to captivity and to the post-release environment. Our project was just funded for three years, and will build on the recent development of numerous genomic resources, such as a high-quality genome assembly. The project will combine cutting-edge molecular techniques and innovative approaches to genotyping of unusual material (historical and non-destructively sampled in the field) with analysis of next-generation sequencing data. This project will blend fundamental science investigating genome evolution with research outcomes that will directly contribute to ongoing conservation efforts. Thus, skills obtained during this degree will be relevant to academia, as well as the conservation sector, including government and NGOs.

Suitable applicants need to be highly motivated with a strong academic and research background. Demonstrated ability to conduct independent research is required, with experience in the molecular lab, and some experience in programming or data analysis being desirable. Applicants should hold first class honours or equivalent experience. The successful student will need to apply to ANU for enrollment, for international applicants ideally by this year's April 15 deadline. The successful applicant will receive a stipend scholarship and research funds, including computer and travel funding.

Location: We will be based in the Division of Ecology and Evolution at the Research School of Biology at the Australian National University in Canberra, Australia. The project will also be supported by Zoos Victoria, who hold a large captive population of the LHI stick insects at Melbourne Zoo, and are closely involved with the recovery effort on Lord Howe Island. Field work to collect additional samples is likely to be involved.

Expression of interest: Expressions of interest should be submitted directly to Alexander.Mikheyev@anu.edu.au. International applicants should contact me by April 5, 2022, though the earlier the better so that we can coordinate the ANU application due on the 15th. Please include a brief statement on why you are interested in this project, a CV and contact details for references. Following assessment of applications one applicant will then be invited to formally apply to the ANU. The successful applicant will be able to start as soon as possible. You can also find out more information about the graduate program by clicking on the “Higher Degree by Research” tab at <http://biology.anu.edu.au/education/-degree-programs> alexander.mikheyev@anu.edu.au

BielefeldU MushroomGenomics

3-year PhD position: Genomic analysis of dispersal and adaptation in porcini mushrooms

With Prof Joe Hoffman (Bielefeld University, Germany) together with collaboration partners Prof. Bill Amos (Cambridge University), Dr. Kanchon Dasmahapatra (University of York, UK), Prof. Bryn Dentinger (University of Utah, USA), Prof. Thorunn Helgason (University of York, UK), Dr. Minou Nowrousian (Ruhr-Universität Bochum, Germany), Dr. Ulrike Damm (Senckenberg Museum of Natural History, Görlitz, Germany) and Dr. Fernando Martínez Peña (Agri-food Research and Technology Center of Aragón, Spain).

An outstanding opportunity is available for a PhD student to work on the evolutionary genomics of porcini mushrooms. The position is available in Joe Hoffman’s research group (www.thehoffmanlab.com) at the Department of Animal Behaviour at Bielefeld University and is fully funded for three years. It will combine fieldwork in Germany, the UK, France and Spain with lab-based bioinformatic analysis of next generation sequencing data.

The project: Ectomycorrhizal fungi (EMF) are critical components of terrestrial ecosystems that play essential roles in nutrient recycling. Consequently, there is a pressing need to study their population dynamics and life histories so as to better understand how ecosystems function and persist. In particular, we need to learn how EMF disperse, colonise new habitats, adapt to their hosts and, in the longer term, speciate. This project will focus on the iconic edible mushroom, *Boletus edulis*, known variously as the penny bun, cèpe de

Bordeaux, porcino or Steinpilz. It will exploit a large collection of *B. edulis* samples to deliver arguably the most comprehensive population genomic study of any wild fungus. Systematic repeated sampling of multiple woodland patches from Bielefeld (Germany) and Thetford Forest (UK) will be used to investigate fine-scale patterns of dispersal, population structure and adaptation to different tree hosts. Overall, this project will produce a detailed picture of how EMF populations become established, spread and evolve. Understanding these processes is essential for predicting ecosystem responses to climate change.

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

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

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

The PhD student will be based at Bielefeld University but will have ample opportunities to interact with the international collaboration partners, who bring additional expertise in molecular ecology (Bill Amos), speciation genomics (Kanchon Dasmahapatra), fungal biology (Bryn Dentinger), plant-fungal interactions (Thorunn Helgason), fungal mating system evolution (Minou Nowrousian), fungal systematics (Ulrike Damm) and mycological conservation (Fernando Martínez Peña). The successful applicant will therefore benefit from an integrative, multidisciplinary training that will prepare her/him very well for a scientific career in molecular ecology / fungal biology / population genomics / con-

servation biology.

Remuneration: This generous PhD studentship is funded by the German Science Foundation (DFG) for a period of three years and includes health insurance. The pay scale is TVL E13 (65%). Funding will also be available for travel and for the student to attend workshops and conferences.

Application procedure: To apply for this position, please provide: (i) a letter of motivation including a maximum 2-page statement of your research interests, relevant skills and experience; (ii) a CV including publication list; (iii) names and contact details of two referees willing

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CharlesU AllopolyploidEvolution

PhD position in Plant Cytogenetics

Department of Botany, Charles University, Prague, Czech Republic seeks a PhD student in Cytogenetics / Evolutionary Biology. Preferred starting date for this position is the 1st September 2022 (with some flexibility).

This PhD position aims at evolutionary history of allopolyploid representatives in the genus *Hieracium* using cytogenetic and molecular (RADseq) approach. The PhD position is a part of the Czech Science Foundation (GAĀR) project lead by Jindřich Chrtek (PI, Institute of Botany, Czech Academy of Sciences) and Patrik Mráz (co-PI, Department of Botany, Charles University), and will be closely coordinated with Alexander Belyayev (Institute of Botany, Czech Academy of Sciences).

Hieracium s.str. (Asteraceae) is a large holarctic genus with a majority of triploid and tetraploid taxa stabilized by asexual seed reproduction. It has been proved that interspecific hybridization deeply shaped evolutionary patterns in the genus and together with polyploidization have triggered a one of the most intricate evolutionary transition in angiosperms - the switch from sexual to asexual (apomictic) reproduction. Because gene flow between apomictic individuals is impeded or severely reduced, hybridogeneous apomictic populations can retain intact genotypes / genomes of their parental species,

and thus can testify of past contact and subsequent local extinction of their parental lineages.

The aim of the PhD project is to (i)determine the parental genomic contributions in genomes of selected apomictic allopolyploids, (ii)assesses putative chromosomal re-patterning that could be indicative for rare sexual events in apomicts, and (iii)provide karyotype evolution of diploid representatives of the genus. In addition to genomic (GISH) and fluorescence in situ hybridization (FISH) approach, which will include also an application of specific chromosomal markers developed by A. Belyayev's team, the PhD candidate will analyse breeding systems (using flow cytometric seed screening) and will participate on preparation of RADseq libraries.

Profile & qualification

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

Founding

Accepted applicant will be supported by a salary from three years project (2022-2024) by the Czech Science-Foundation (GAĀR). In addition, a four years PhD fellowship will be provided by the Faculty of Sciences.

Application

Please send your motivation letter including your CV and contact details of two references as a single pdf by e-mail to: Patrik Mráz, mrazpat@natur.cuni.cz before the 4th April 2022.

For any further details write to mrazpat@natur.cuni.cz

<https://botany.natur.cuni.cz/apomixisgroup/> <https://botany.natur.cuni.cz/mraz> Patrik Mráz Herbarium PRC & Department of Botany

Charles University, Faculty of Science Benátská 2, 128 01 Praha 2 CZECHIA Tel.: +420 221 95 1642 <https://botany.natur.cuni.cz/prc/?lang=en>

<https://botany.natur.cuni.cz/apomixisgroup/> <https://botany.natur.cuni.cz/mraz> Patrik Mráz <mrazpat@natur.cuni.cz>

CharlesU Prague EvolutionGenomicsFishes LASTcall

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

Topic: Hemoglobin evolution in riverine and deep-sea fishes

We search for a highly motivated student interested in the evolution of hemoglobin genes in fishes. In our research group we study several groups of genes and their evolution in fishes. We mostly focus on the sensory genes (visual photoreceptors, olfactory receptor genes, etc.), but hemoglobins are our target too. We generally integrate genomics and transcriptomics to reconstruct the evolution of the gene function and we try to understand the complex story of adaptation to extreme environments at the molecular level. We currently plan to employ advanced molecular methods, such as single-cell transcriptomics and in-vitro engineering to discover and describe the mechanisms of molecular adaptation and evolution in the hemoglobin genes.

We offer: 4-years PhD position starting in October 2022 in a dynamic international research team with several postdocs, PhD and MSc students, access to fascinating fish samples from the deep sea, as well as from European rivers. Possibility for own idea development within the framework of the PhD project. We offer a substantial salary (380'000 CZK annually in netto (!), equal to the average national salary in the Czech Republic) + PhD students at Charles University have options to increase their salary by by development in their duties (e.g. exams and early publications).

We require: PhD candidate with motivation and enthusiasm for biology, nature and science; fluency in English; a M.Sc. degree in biology or related fields (or to be finished by September 2022).

We desire: The candidate should ideally have at least basic experience from the molecular wet lab, as well as some bioinformatics skills (experience with genetic data highly beneficial), or with ability and willingness to learn it. Any potential experience with physiology experiments would also be beneficial and could be added to the project. The expected role of the student in the project is in preparation of the NGS libraries, analysing the genomic and transcriptomic data, (therefore, basic

understanding of the unix environment would be quite useful) and performing additional experiments built up on the results. While the project is mainly molecular, we generally aim to make cool stories out of our findings, and we aim to tell it in the context of evolution, fish and their life. The candidate is expected to present his/her project at international conferences and will be authoring research publications. All nations applicable.

Start: October 2022, Duration: 4 years.

Deadline: 31st March 2022 (the candidate has to be assigned to the position by the mid/end of April).

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

THANK YOU FOR YOUR APPLICATION:-)

zuzmus <zuzmus@gmail.com>

CheetahConservationFund Namibia ConsGenetics

Genetics PhD project at the Cheetah Conservation Fund, Namibia

The Cheetah Conservation Fund (CCF), Namibia, is currently looking for a highly motivated individual to join the on-site genetics laboratory to conduct a PhD project. The genetics laboratory is part of CCF's research and conservation efforts. CCF is a non-profit NGO dedicated to the conservation of the cheetah, and is registered as a research centre in Namibia. CCF does not award degrees but has ongoing collaborations with various universities.

The project will address various aspects of cheetah genetics, and includes landscape genetics and the investigation of several genes. Details on the project are available during the selection process. The project methodology is based on classic markers using capillary electrophoresis and includes analysis of existing data as well as processing of samples to expand the dataset(s).

The prospective student is expected to have an MSc in a relevant field and to qualify for PhD studies. The choice of the University is flexible and can be discussed as part of the selection process. The student is expected to move to CCF for the duration of the PhD and to be registered with a university prior to moving to Namibia.

Basic level funding is available for the project, including funds to partially support the student. The student is also expected to seek out funding in support of the PhD project. CCF will provide guidance and support for the development of proposals.

The successful candidate should be prepared to follow best laboratory practices in molecular biology/genetics and have good attention to detail. Knowledge in GIS is desired but not required. The successful candidate will contribute to the functioning of the laboratory beyond the scope of the PhD project and must have good communication skills.

The project is available immediately. Applicants should send their CV, letter of motivation, and contact details of 3 references to genetics@cheetah.org <<mailto:genetics@cheetah.org>> .

The genetics laboratory is located at the CCF research centre, about 40 km east of Otjiwarongo, Namibia. Many staff members and students live in CCF housing on campus. Further information regarding CCF and its mission to conserve cheetahs in the wild may be found at www.cheetah.org <<http://www.cheetah.org>> .

Anne Schmidt-Ki \ddot{u} ntzel, DMV, PhD

Assistant Director for Animal Health and Research Life Technologies Conservation Genetics Laboratory

Cheetah Conservation Fund (CCF) www.cheetah.org

Email: genetics@cheetah.org Tel (CCF general number): +264 67 306 225

genetics@cheetah.org genetics@cheetah.org

CityU London CancerEvolution

A funded PhD position is available supervised by Rob Noble and Mark Broom in the Department of Mathematics at City, University of London.

The successful candidate will use mathematical methods to investigate cancer evolution. The aim is to develop a general mathematical understanding of how the diverse evolutionary modes observed in human tumours arise from their evolutionary parameter values and spatial structures, extending recent results obtained using stochastic simulations (Noble et al. *Nature Ecology & Evolution*, 2021). This map from parameters to emergent biological properties has important implications

for cancer prevention, prognosis, and treatment.

The project will involve some combination of computational modelling, analysis of spatial stochastic processes, evolutionary theory, and data analysis, according to the successful candidate's interests and expertise. Results will be compared to clinical data.

The student will join a group of mathematical biologists working on projects related to cancer, stochastic models, structured populations, and multiplayer games. They will benefit from the supervisors' international networks of collaborators in mathematical oncology and cancer evolution.

Eligibility and requirements:

The candidate should have (or will soon have) a good honours degree in mathematics, physics, computational biology or another scientific discipline that has equipped them with strong analytical skills.

Especially competitive candidates will have training in stochastic processes, some computer programming skills (e.g. in Python, C, or R), and a demonstrable interest in answering biological or biomedical questions. Prior research experience in mathematical biology is desirable but not essential.

Funding:

The studentship is for 3 years and will provide full coverage of tuition fees (Home and Overseas) and an annual tax-free stipend of 12,000.

Each student would also have the opportunity to earn around 2.2K pa on an average (max. is around 4.3K pa) through a teaching assistantship. We shall prioritise these scholarship holders while allocating the teaching assistantships.

Deadline: 15th April 2022.

For further details and application instructions please visit <https://www.city.ac.uk/prospective-students/finance/funding/investigate-cancer-evolution-studentship> . Robert Noble

Lecturer, Department of Mathematics City, University of London Northampton Square, London EC1V 0HB www.city.ac.uk [robjohnnoble.github.io](https://github.com/robjohnnoble)

"Noble, Robert" <Robert.Noble@city.ac.uk>

CzechAcademy 2 PopulationGenetics

Two PhDs in Community Ecology & Population Genetics

We invite prospective candidates for two four-year fully-funded PhD Studentships to explore exciting questions on the interface of community ecology and population genetics. How do species coexist in diverse communities? And how is genetic variation maintained within populations? These processes are typically studied separately, but likely interact to structure diversity in ecological communities. For example, rapid evolution is likely to have a key role in determining species coexistence.

To address these questions, our collaborative project uses a novel experimental community model system of wild *Drosophila* species and their parasitoids from tropical Australia. We are able to perform multigenerational laboratory microcosm experiments and track eco-evolutionary dynamics in fine detail. We are offering two positions - one more focused on community ecology and the other on population genetics. The candidates will use a combination of some of the following approaches: laboratory experiments on maintenance of species diversity in communities and maintenance of genetic variation, experimental evolution, genome-wide association studies, eco-evolutionary modelling, population genomics using whole genome data, and field surveys of *Drosophila* - parasitoid food webs in Australian tropical rainforest. The specific PhD chapter projects will result from a discussion between the candidate and the supervisor.

The successful applicant will join the Laboratory of Experimental Ecology [<http://lab.hrcek.net>] at the Biology Centre, Czech Academy of Sciences, Ceske Budejovice, Czech Republic, under the supervision of Dr Jan Hrcek. The laboratory is a multinational team of post-docs, PhD students and technicians and the applicant will have the opportunity to work extensively with other team members. The laboratory obtained prestigious high-level funding for five years (ERC-CZ grant) and therefore can provide substantial resources and support for exceptional research. The laboratory is part of the Department of Ecology, a dynamic international centre for research on interaction networks.

Together with each PhD student we will choose a

co-supervisor from current international collaborators (listed at the bottom of [<http://lab.hrcek.net/-people.html>] page) or start new collaborations. The position will include a research stay abroad.

The deadline for applications is 6th May 2022. The positions can start from August 2022 onwards. The students will receive a salary which comfortably covers living expenses in the Czech Republic. The working language is English and applicants from all countries are eligible. A MSc degree is required to enter PhD in Czech Republic. Following experience is an advantage:

- Research experience with laboratory experiments, insect ecology or molecular ecology
- Experience in eco-evolutionary dynamics or population genetic modelling
- Experience with population genetics
- Driving licence and fieldwork experience

To apply please send one document comprising a CV, contact details for two references, and a motivation letter to Jan Hrcek [janhrcek@gmail.com].

Jan Hrcek <janhrcek@gmail.com>

Frankfurt ComparativeVertebrateGenomics

Job Announcement ref. #12-22004

PhD Position in Comparative Vertebrate Genomics

The Hiller Lab at the LOEWE Center for Translational Biodiversity Genomics (TBG) in Frankfurt, Germany is looking for an ambitious PhD student to investigate the genomic basis of phenotypic differences between vertebrates.

The Project

The project aims at linking phenotypic adaptations to genomic differences, which is a central goal in the genomics era. The PhD student will capitalize on a number of new long-read based genomes that we are sequencing in a collaborative project as well as a powerful repertoire of comparative methods to trace key genomic differences in genes and regulatory elements. We plan to investigate the genomic underpinnings of many interesting adaptations including metabolic, physiological and morphological traits in bats and other mammals, reptiles and fishes. The PhD student will work closely with other members of our lab, the TBG lab center and students from other collaborating institutes on all computational and experimental aspects.

Our lab

The mission of our group is to understand how nature's fascinating phenotypic diversity has evolved and how it is encoded in the genome. Work in the lab includes sequencing and assembly of reference-quality genomes, genome alignment and annotation, development and application of comparative genomic methods to discover differences in genes and cis-regulatory elements, and the use of statistical approaches to link phenotypic to genomic changes [1-9].

Our lab is part of TBG (<https://tbg.senckenberg.de/>) and Senckenberg Research Society, and is based near the city center of Frankfurt am Main, Germany. TBG provides access to cutting-edge computational (HPC clusters, genome browser) and lab infrastructure to sequence genomes. English is the working language in our lab. Senckenberg and TBG provide flexible working hours, an annual special payment, a company pension scheme, the Senckenberg badge for free entry in museums, the zoo, botanical garden and Palmengarten, a leave of 30 days per year, and a subsidy job ticket for public transport. Frankfurt is a vibrant and highly-international city at the heart of Europe that combines a skyscraper skyline with ample park and green areas.

Requirements

Applicants should have a degree in bioinformatics/computational biology, genomics or a related area, and a strong publication record. Solid programming skills in a Linux environment and experience with shell scripting and Unix tools are required. Previous experience in large-scale comparative genomic data analysis is an advantage.

Place of employment: Frankfurt am Main

Type of contract: 3 years

Salary and benefits: according to the collective agreement of the State of Hesse

(pay grade E13 75% TV-H)

The position is fully funded and should ideally start as soon as possible.

The employer is the Senckenberg Gesellschaft für Naturforschung who supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference.

How to apply

Please send your application, mentioning the reference of this job offer (ref.#12-22004), by e-mail to Michael Hiller (michael.hiller@senckenberg.de) and recruiting@senckenberg.de.

The application should include the reference of this job offer, a CV with a publication list and contact information for at least two references, and a summary of previous research experience (max 1 page), and copies of certificates, transcripts and grades.

The application deadline is April 4th, 2022.

For more information please contact Prof. Dr. Michael Hiller, michael.hiller@senckenberg.de or use the following link: <https://tbg.senckenberg.de/personen/hiller/>

Recent publications

- [1] Blumer et al. Gene losses in the common vampire bat illuminate molecular adaptations to blood feeding. *Science Advances*, 2022
- [2] Roscito et al. Convergent and lineage-specific genomic differences in limb regulatory elements in limbless reptile lineages. *Cell Reports*, 38(3):110280, 2022
- [3] Jebb et al. Six reference-quality genomes reveal evolution of bat adaptations. *Nature*, 583, 578-584, 2020
- [4] Huelsmann et al. Genes lost during the transition from land to water in cetaceans highlight genomic changes associated with aquatic adaptations. *Science Advances*, 5(9), eaaw6671, 2019
- [5] Hecker et al. Convergent gene losses illuminate metabolic and physiological changes in herbivores and carnivores. *PNAS*, 116(8), 3036-3041, 2019
- [6] Roscito et al. Phenotype loss is associated with widespread divergence of the gene regulatory landscape in evolution. *Nature Communications*, 9:4737, 2018
- [7] Lee et al. Molecular parallelism in fast-twitch muscle proteins in echolocating mammals. *Science Advances*, 4(9), eaat9660, 2018

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KielU 14 Translational Evolutionary Research

14 PhD positions within the Research Training Group "Translational Evolutionary Research"

The Kiel University, the University Hospital Schleswig-Holstein (UKSH), the Max-Planck-Institute for Evo-

lutionary Biology in Plön, the Helmholtz Center for Ocean Research Kiel (GEOMAR), the Research Center Borstel (Leibniz Lung Center), the Kiel Institute for the World Economy (IfW) and the Max-Rubner-Institute Kiel (MRI) offer

*14 PhD positions **within the Research Training Group “Translational Evolutionary Research” (3 year and 2.5 months fixed-term positions, 65% TV-L, TV-ÄD E13)*.

The graduate school aims at studying the relevance of evolutionary principles to applied problems. Unintended outcomes of human intervention often result from actions that influence natural selection. For example, the usage of antibiotics or anti-cancer drugs in medicine, of pesticides in agriculture, or human perturbation of the earth’s ecosystems directly change natural selection and thereby affect the evolution of organisms. Surprisingly, evolutionary concepts are only rarely used to improve our understanding of these applied challenges and to develop new sustainable solutions. The RTG will train PhD students in the competences to do so.

This RTG is a joint initiative of Kiel University, the University Hospital Schleswig-Holstein (UKSH), the Max-Planck-Institute for Evolutionary Biology in Plön, the Helmholtz Center for Ocean Research Kiel (GEOMAR), the Research Center Borstel (Leibniz Lung Center), the Kiel Institute for the World Economy (IfW) and the Max-Rubner-Institute Kiel (MRI). The RTG offers an internationally competitive research environment with state-of-the-art facilities. The participating groups use a variety of different methods, including evolutionary experimental, molecular, genomic, and theoretical approaches.

The graduate program starts with a *rotation period of 2.5 months *(with an initial employment at Kiel University)* followed by a PhD project of three years* (employment by one of the involved institutions) including seminars, courses and workshops. The language of the graduate school is English. PhD projects are offered as tandem projects (i.e., two related PhD projects) and cover the following topics:

*1) **Evolutionary management of harvested populations *

*1.1 PI Thorsten Reusch: Fisheries-induced evolution *

1.2 PI Martin Quaas: Evolutionary fishery economics and management

*2) **Plant breeding and disease control *

2.1 PI Christian Jung: Genetic analysis of leaf spot resistance

2.2 PI Eva Stukenbrock: Plant pathogen evolution on cultivated and wild plant hosts

*3) **Plasmid-mediated resistance spread in food production *

*3.1 PI Tal Dagan: Plasmid evolution in the food industry *

3.2 PI Hildegard Uecker: Mathematical modeling of the evolution and spread of plasmid mediated antibiotic resistance

*4) **Evolution of human pathogens under antibiotic therapy *

4.1 PI Stefan Niemann: Adaptation of Mtb to antibiotic treatment

*4.2 PI Hinrich Schulenburg: Efficacy of sequential therapy against clinical *Pseudomonas

*5) **Fecal microbiota transplants in inflammatory bowel disease*

5.1 PI Charles Franz: Relationship between Lactobacillus diversity and host FUT2 genotype

5.2 PI John Baines: Evaluating the gut microbiome for adaptation to host Fut2 genotype

*6) **The role of the immune system in life-history evolution*

6.1 PI Almut Nebel: Immune genetics and longevity in humans

6.2 PI Olivia Roth: Coevolution of the immune system with sex-role, male pregnancy and longevity

*7) **Role of cellular plasticity in the evolution and ecology of therapy resistance *in *pancreatic cancer*

7.1 PI Susanne Sebens: Experimental analysis of cellular plasticity in the evolution and ecology of therapy resistance in pancreatic cancer

*7.2 PI Arne Traulsen: Mathematical modelling of the evolution and ecology of pancreatic cancer cells under therapy *

*To obtain further information on our PhD program, the PhD topics, and application details please visit: **<https://transevo.de/>* < <https://transevo.de/> >

Motivated and highly qualified candidates are welcome to apply. A Master of Science degree or a Diploma as well as a strong interest in Evolutionary Biology are prerequisites for entering the program. (You will find more information about the employment requirements with the project descriptions below). We are looking forward to your application for a PhD project in the beautiful landscape of Northern Germany.

The deadline for applications is April 21, 2022.

The selection days will be held from June 22-24, 2022.

The program itself starts on October 1, 2022 (a later start date is possible).

The University of Kiel sees itself as a modern and cosmopolitan employer. We welcome your application regardless of your age, gender, cultural and

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LinnaeusU FishAdaptation

Linnaeus University Kalmar: Graduate student position in fish ecology

Phd-Student Position: Fish Ecology & Behaviour

4 years fully funded

Environmental effects on reproduction and survival

Biologging (acoustic telemetry, body acceleration), molecular work and experimental work

Based in Kalmar, Sweden

Application Deadline 25th of April 2022

Job description The timing of life-history events such as migration and reproduction (i.e. phenology) influences the environmental conditions that organisms experience during these stages, and can affect reproductive success and survival. Timing life-history stages to match whenever conditions are suitable is thus crucial for the success of individuals and populations. With environmental conditions and seasonality currently changing due to climate change, there is an urgent need of improving our understanding of whether and how environmental change, across and within years, may result in phenological mismatches with impacts on biodiversity and ecosystem function. This 4-year, fully funded, PhD project investigates the consequences of changing environments on phenology, life-history traits, migration patterns, habitat utilization and species interactions of Baltic Sea coastal predators (e.g. pike, perch and cormorants).

We are looking for a skilled and motivated PhD student with a passion for fish ecology, spatial ecology, food web and/or movement ecology. The research will utilise a combination of remote biologging (acoustic and

GPS transmitters on fish and birds respectively), molecular methods and manipulation experiments in both field and laboratory settings. This project is part of a larger multidisciplinary project within the Linnaeus University Centre for Ecology and Evolution in Microbial model Systems EEMiS that seeks to understand the consequences of environmental change on phenology and interaction strengths across trophic levels in the coastal food web of the Baltic Sea.

Requirements MSc or equivalent Specific requirements is also a high proficiency in written and spoken English.

Selection criteria include experience with: Working within Aquatic Ecology, Fish Ecology, Movement Ecology and/or Spatial Ecology Statistical analysis of big data Data management and R programming Remote biologging techniques (e.g. acoustic telemetry)

Fieldwork Mechanistic laboratory and field experiments Molecular methods Scientific publishing Holding a driver's license (class B) Experience of driving and working from boat Important personal qualities are to be creative, good at problem-solving, a team-worker, independent, resilient, and structured.

For more information, please contact: Head of department: Jonas Waldenström, jonas.waldenstrom@lnu.se Research leader: Petter Tibblin, petter.tibblin@lnu.se.

HR partner: Leif Eriksson, leif.eriksson@lnu.se

Union representatives can be reached through the university switchboard: +46-(0)772-28 80 00.

To apply The application (in English) should contain a CV (with telephone, e-mail, and contact details of two reference persons), documentation of exams and grades, and a description of motivation and experience relevant to the position.

All documents cited must be received by the university no later than 24.00 (Local time in Sweden) on the closing day April 25, 2022. Start date will be as soon as possible.

Full advertisement & link to the application portal: <https://lnu.se/en/meet-linnaeus-university/work-at-the-university/?rmpage=job&rmjob=6593&rmlang=UK> Markus Zöttl <markus.zottl@lnu.se>

Macaronesia BirdSongEvolution

X-MS-Has-Attach: X-MS-Exchange-Inbox-Rules-Loop: golding@mcmaster.ca X-MS-TNEF-Correlator: authentication-results: spf=pass (sender IP is 209.85.128.47) smtp.mailfrom=gmail.com; dkim=pass (signature was verified) header.d=gmail.com; dmarc=pass action=none header.from=gmail.com; compauth=pass reason=0 received-spf: Pass (protection.outlook.com: domain of gmail.com designates 209.85.128.47 as permitted sender) receiver=protection.outlook.com; client-ip 9.85.128.47; helo=mail-wm1-f47.google.com; dkim-signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=gmail.com; s=210112; h=mime-version:from:date:message-id:subject:to; bh=AT2KFJB2xvNIhjBzX5UtwJtSZVSrWipToW8Gb4pN0=; b=LTm2FkBKw4pPKEm3g5ysE2t+MMrIznOC9Ne+2M1pscVA1W/6HfbVMw20/QynnNl/tLkHCEvpvT7clAkOIHWQltqSdyXKzZhQJTFmN6GUH6SckDnBocwWkD097mQI+tLd2Fru bPniSTpiBEMeol1AMqkWSXeXFtR20t5Jzn3Vl35saKMlGd4p71wn5XTfwJLcsmgTfP1CX /PdxT6l2sefHmPWob6s+uMibUgWd2Uhmpe+RXpmZsrZFBk7yvUte9hdOkCfO/FE6FT ZXMbyTjzKu8EVXQSn6VyTtQNmiyV9rE+UWkVH+ikVUpkCwouZ87fzOQeHH7SWS/EOJl xfRA=x-google-dkim-signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=100.net; s=210112; h=x-gm-message-state:mime-version:from:date:message-id:subject:to; bh=AT2KFJB2xvNIhjBzX5UtwJtSZVSrWipToW8Gb4pN0=; b=6VMD7Upa9mfH6cFYQFBnkmNchvdTiI7Np435DaE197JGicrkUCkTfEL/4bGh3SXXK gaHhxxh/+uPzaef7idNtjN/bGs2mbdpxm4geJpt8C8QF1IAwDmkwJNHQHT56J8M+9dIdr j51ZEApO/xbn/vewPa5WyWMx0VR0x8fYLNgorGuo64ckZLq0yBXG/fbncq1YOUgCBhH _URL_NOT_IMG 3tzxKmhCJctHzkwcAHmih2Uf7Cxtre7IORyTS/RBUid/frRmEcJp+w4hjuJt+rpCy75yT _URL_WITH_PATH 8f7dSm5t8oH1G171hehLS+Cjjit0O79eARf4kutP5rYkckK/wRxxgctj100dsH16dC9 _X_GM_MESSAGE_STATE xX7A=x-gm-message-state: AOAM533xZUCIWYDNbUC0xE/wiUlgreLSyjjzqX11hzPPEbf15KnZ8bSS YOU_TUBE_RCVD QQKmoZ80uuSwiyh/oRadZkFwKYSC5iZW61REcb2hFxmzKtQND/vp x-google-smtp-source: ABdhPJxgsnhlUlkTm4G5RuEDiP0QWvklzCO3lx6Enx5pcc1j+dwbtuDMX6h7KAKO610T0SzfBfs3sMe received: by 2002:a05:600c:3d98:b0:381:7aac:c44c with SMTP id bi24-20020a05600c3d9800b003817aacc44cmr5103659wmb.174.1646132762712; Tue, 01 Mar 2022 03:05:02 -0800 (PST) x-pmx-version-mac: 6.0.3.2322014, Antispam-Engine: 2.7.2.2107409, Antispam-Data: 2022.3.1.105715 x-perlmx-spam: Gauge=IIIIIII, Probability=8%, Report=' EU_TLD 0.1, BODYTEXTH_SIZE_10000_LESS 0, BODYTEXTH_SIZE_3000_MORE 0, DKIM_ALIGNS 0, DKIM_SIGNATURE 0, FROM_NAME_PHRASE 0, HTML_BAD_EXTRAS 0, IMGSPAM_TABLE_1 0, KNOWN_MTA_TFX 0, LINK_TO_IMAGE

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To read the entire message look it up at <http://life.biology.mcmaster.ca/~brian/evodir.html>

Macaronesia EvolutionBirdSong

BSc/MSc project: Evolution of Berthelot's Pipit song in Macaronesia

Are you interested in the field of behavioural ecology and bioacoustics? At the Bioacoustics Group of Charles University (Prague, Czech Republic), we are looking for a highly motivated student to join our team to study the evolution of song in Berthelot's pipits.

Berthelot's Pipit (*Anthus berthelotii*) is a sedentary and endemic species to three of the Macaronesian archipelagos: Madeira, Selvagens, and the Canary Islands. The colonization history of this species has been reconstructed from genetic and morphological data, however, patterns of song evolution between its populations, naturally fragmented over the evolutionary timescale, remain unknown.

Birdsong develops under the influence of vocal learning and is culturally transmitted. By learning from parents and neighbours, cultural transmission may maintain certain song types within populations over generations. If considered in terms of speciation, song learning might accelerate song divergence, and potentially contribute to allopatric speciation when populations become geographically isolated (e.g., islands separated by ocean barriers). Because oceanic islands are geographically discrete units, they provide suitable systems to understand evolutionary diversification processes.

The main aim of this project will be to explore the intraspecific geographic variation of songs in this insular species, and this way assess if islands and archipelagos have matching patterns of acoustic and genetic differentiation.

This project is data-based since recordings from most of the islands have been already collected. The main task of the prospective student will be to measure and analyze these recordings using bioacoustics software. Experience using bioacoustics software is welcome but not essential; if needed, the student can be trained in the use of specialized software for bioacoustics studies such as the widely used Avisoft and the up-and-coming Luscinia.

The project is suitable for BSc or MSc Students that

want to conduct their thesis abroad or for short traineeships (e.g. one semester). Students from European universities can get money to cover/reduce monthly living costs by applying for Erasmus funding at their home institutions (e.g. Erasmus + traineeship grant). More information about Erasmus + traineeship programme:

<https://erasmus-plus.ec.europa.eu/opportunities/individuals/students/traineeship-student> If interested, please contact Tereza Petrusková (kumstatova@post.cz.)

Do you want to know more about our research group? Check the following link: <https://www.natur.cuni.cz/biology/ecology/research/ongoing-projects/bioacoustic-research-group/about>
ResearchGate: <https://www.researchgate.net/lab/Bioacoustics-Group-Tereza-Petruskova> Twitter: @Bioacoustics.CU

Virus-free. www.avast.com

Javier Oñate Casado <javiatocha@gmail.com>

MaxPlanckInst Jena HostDiseaseBehaviour

Parasitism and social behaviour in ants

We invite applications for a fully funded PhD position to work on the behavioural and chemical ecology of nematode infections in ants with the groups of Yuko Ulrich (ulrichlab.com) and Markus Knaden (ice.iwww.mpg.de/-228656/odor-guided-behavior) at the Max Planck Institute for Chemical Ecology in Jena, Germany.

Background: Parasites can affect virtually any aspect of host biology, including behavior. Effects range from manipulations of host behavior that increase parasite transmission to changes in host social behaviour (e.g., social distancing) that reduce transmission. Social insects and their parasites include some of the best-known examples of behavioral effects at both ends of this spectrum (1, 2), but the mechanisms driving these changes are rarely known.

Nematodes of the genus *Diploscapter* infect the postpharyngeal gland of ants (3), an organ involved in the spread of cuticular hydrocarbons among nestmates. Cuticular hydrocarbons play a central role in communication within ant societies: they are the basis for the formation of a "colony odor", which is in turn used for nestmate recognition (i.e, self vs. non-self discrimination) (4). It is currently unknown whether nematode infections in

the postpharyngeal gland can affect the ants' nestmate discrimination ability, and if so, what the consequences on aggressive behavior, colony composition, and parasite transmission are.

Project Description: You will combine behavioural and chemical analyses to study the effect of experimental infections with *Diploscapter* nematodes in the clonal raider ant *Ooceraea biroi* (5), an emerging model for the study of social behaviour (6). You will investigate whether and how nematodes affect ant cuticular hydrocarbon profiles and the ability of ants to discriminate nestmates from non-nestmates, and how this in turn affects the transmission success of the parasite and the fitness of host colonies. Depending on your interests, this project can develop to address more detailed questions on the sensory and nutritional aspects of the interaction between host and parasite, intergenerational effects of infections on the host, or comparative approaches using other ant-nematode species pairs. The project provides opportunities for internal and external collaborations.

Candidate profile:

- Master's degree (or equivalent) in biology or related field
- Proactive, dynamic, and curious
- Excellent communication and organizational skills
- Proficiency in written and spoken English
- Experience with behavioural assays or chemical analyses in insects are desirable but not necessary

Applications should be submitted online through the online portal of the graduate school (International Max Planck Research School, IMPRS): <https://www.ice.mpg.de/296548/current-call> by May 6, 2022. Informal inquiries about the position can be addressed to Yuko Ulrich (yulrich@ice.mpg.de).

The Max Planck Institute for Chemical Ecology provides a thriving, international, and multidisciplinary research environment, state-of-the-art facilities and equipment, and world-class colleagues working on evolutionary biology, and insect chemical ecology and neuroethology. The working language of the institute is English. For more information, please visit www.ice.mpg.de. The Max Planck Society is committed to equal opportunities and diversity (www.mpg.de/equal_opportunities). We welcome qualified applicants from all backgrounds.

References:

1. D. P. Hughes, F. Libersat, Parasite manipulation of host behavior. *Curr. Biol.* 29, R45-R47 (2019).
2. S. Cremer, S. A. Armitage, P. Schmid-Hempel, Social immunity. *Curr. Biol.* 17, R693-702 (2007).

3. G. J. Poinar, Nematode Parasites and Associates of Ants: Past and Present. *Psyche* 2012, (2012).

4. P. P. Sprenger, F. Menzel, Cuticular hydrocarbons in ants (Hymenoptera: Formicidae) and other insects: how and why they differ among individuals, colonies, and species. *Myrmecological News* 30, 1-26 (2020).

5. G. Alciatore et al., Immune challenges increase network centrality in a queenless ant. *Proceedings of the Royal Society B-Biological Sciences* 288, (2021).

6. Y. Ulrich, J. Saragosti, C. K. Tokita, C. E. Tarnita, D. J. C. Kronauer, Fitness benefits and emergent division of labour at the onset of group living. *Nature* 560, 635-638 (2018).

yuko.ulrich@ice.mpg.de

MichiganTechU PlantEvolution

*Ph.D. opportunity in Plant Ecology and Evolutionary Biology at Michigan Technological University
tyevoldir@evol.biology.mcmaster.ca

A Ph.D. student opportunity is available in Dr. Erika Hersch-Green's Plant Evolution and Ecology lab in the Department of Biological Sciences at D. opportunity in Plant Ecology and Evolutionary Biology at Michigan Michigan Tech in Houghton, MI; starting date is flexible either August 2022 or January 2023. Broadly speaking our group focuses on the mechanisms and processes that influence how plants interact with their abiotic and biotic environments to effect ecological and evolutionary dynamics. Particular research foci include - climate change biology, genome size, hybridization, invasive species biology, species interactions, and polyploidy.

We are looking for a student to work as part of a team of students, scientists, teachers, and video media specialists on research that seeks to understand whether and how nutrient availabilities and/or disturbances affect plants differently based upon their genome sizes and whether this contributes to the structuring of biodiversity patterns from the molecular and functional attributes of organisms to multispecies assemblages. In the summer of 2021, we established a long-term experimental field site that is integrated into the globally distributed NutNet/DRAGNet experimental research consortium (<https://nutnet.org/>) - where grassland plots vary in nutrient and disturbance treatments. The successful candidate will be expected to incorporate this local site (and potentially other sites in the network) into their

research and to test hypothesis related to how plant genome size influences community assembly processes, plant species interactions (with other plants, pollinators, herbivores, fungi, microbes), and/or invasive species dynamics following disturbances and/or nutrient enrichments.

Eight semesters of funding (including tuition) are available for support. Candidates must have prior work experience in field *or* molecular/chemistry lab settings, work well independently as well as part of a team, and have a Master's degree in a related discipline to ecology and evolutionary biology; only substantial research experience will be considered in lieu of a Master's degree. All members of our group are committed to promoting diversity, equity, and inclusion and the successful candidate will also commit to this approach. Desired qualifications include an excellent academic record, a good quantitative background (including statistics), and strong writing skills. Aside from a research focus, students will be trained in scientific teaching and communication skills and will have the opportunity to work with G6-12 and undergraduate students. Therefore, we are also looking for a student who is interested in community outreach.

Qualified and interested candidates should email Dr. Erika Hersch-Green (eherschg@mtu.edu) and include a statement of interest describing what area(s) of research they are interested in and why, an updated CV, unofficial transcripts, contact information for 3 references and preferred start date (August 2022 or January 2023). Suitable candidates will *then* be encouraged to submit a formal application to the graduate school at Michigan Technological University. Review of applicants will start May 1st until a candidate is found.

Michigan Tech is located in Houghton, MI on the south shore of Lake Superior. This area is known for its natural beauty, pleasant summers, abundant snowfall, and numerous all-season outdoor activities. The University maintains its downhill and cross-country ski facilities adjacent to campus and a nearby golf course. Numerous cultural activities and opportunities are available on campus and in the community. Links for more information about the university and its surrounding area: Michigan Tech Home Page (<http://www.mtu.edu>), Dept. of Biological Sciences (<http://www.mtu.edu/biological/>), Graduate School (<http://www.mtu.edu/gradschool>), Research Centers (<https://www.mtu.edu/research/about/centers-institutes/>), Recreation/Things to do (<http://www.mtu.edu/recreation>, <https://www.keweenaw.info/attractions/>, <http://visithoughton.com/attractions-entertainment/>).

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

.D. opportunity in Plant Ecology and Evolutionary Biology at Michigan

Erika Hersch-Green <eherschg@mtu.edu>

MontpellierU MarineEvolution

We are seeking a highly motivated student holding a Master's degree for a PhD position in evolutionary ecology on the link between genetic and functional diversity in marine teleost fish and its implications for their response and resilience to global change (see the dedicated webpage for details: <https://ifremer-en.jobs.net/en-GB/job/phd-deciphering-the-link-between-genetic-and-functional-diversity-in-marine-tele/J3W32569N4S5V3KYH41>).

The research will rely on developing an individual-based eco-evolutionary model of fish communities for the Mediterranean Sea taken as a case study and be conducted at UMR MARBEC (<https://umr-marbec.fr/en>) in Montpellier (France) starting in Fall 2022.

The student will be supervised by Dr. Bruno Ernande (IFREMER, bruno.ernande@ifremer.fr) and Dr. Yunne-Jai Shin (IRD, yunne-jai.shin@ird.fr) and will be registered in the GAIA Doctoral School (<https://gaia.umontpellier.fr/>) of Montpellier University.

The student will also collaborate with researchers from the UMR ISEM (<https://isem-evolution.fr/>) in the context of a local collaborative project and with researchers from French and other European research units in the context of a national (FORESEA 2050, 2021-2024, 7 partners) and a European project (BIOcean5D, 2022-2026, 29 partners).

The work involves mostly computer work and programming with opportunities for field work during scientific cruises at sea.

Strong programming skills and good knowledge of programming languages such as R, C/C++, Fortran or Java are required.

Interested applicants should send their applications by April 25, 2022 to the supervisors (bruno.ernande@ifremer.fr and yunne-jai.shin@ird.fr)

and upload it on the dedicated webpage (<https://ifremer-en.jobs.net/en-GB/job/phd-deciphering-the-link-between-genetic-and-functional-diversity-in-marine-tele/J3W32569N4S5V3KYH41>).

Interviews will take place on June 1st, 2022 from 9 to 12 am CET.

Bruno ERNANDE (Ifremer) UMR MARBEC Université de Montpellier, 2 Place E. Bataillon - CC 093, 34095 Montpellier Cedex 5, France +33 (0)467143672 / +33 (0)614102621 <http://www.umr-marbec.fr/fr/> <http://annuaire.ifremer.fr/cv/16861/> <http://sombec.org/>
Bruno.Ernande@ifremer.fr

MPIO Seewiesen EvolutionCognition

Opportunity!

Projects available for Master's/Bachelor's students and self-funded Interns in Comparative Cognition Research Station at Tenerife, Spain run collaboratively between the Max-Planck Institute for Ornithology and the Loro Parque Foundation

The Max-Planck Comparative Cognition Research Group (CCRG)

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

Preferable time of joining: It is highly preferable if students can join by April-May 2022

Logistics: The projects for Master's/Bachelor's theses and internships require a minimum of 4 months but ideally 6 months of continuous commitment at the re-

search station in Tenerife, Spain. Accommodation can be provided in a shared student apartment (Puerto de la Cruz, Tenerife, Spain).

Important skills/qualifications:

Selected candidates need to have:

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

Submit your request!

For more information on how to apply, please email Dr. Anastasia Krasheninnikova (akrashe@orn.mpg.de), the Msc Esha Haldar (ehaldar@orn.mpg.de) or the Msc. Sara Torres (storres@orn.mpg.de).

"Krasheninnikova, Anastasia" <akrashe@orn.mpg.de>

PennsylvaniaStateU PlantConservationGenomics

Plant Conservation and Restoration Genomics at Pennsylvania State University

A PhD and MS position are available in conservation and restoration genomics to study genotype-environment interactions for climate adaptation and restoration in forest trees (PhD) and genetic connectivity for grassland species commonly used in restoration (MSc) with Jill Hamilton at Pennsylvania State University.

PhD Position: The PhD student will be prepared to combine field-based research monitoring phenotypic trait variation across replicated common garden experiments with genomic analyses (RAD-seq and whole-genome sequencing), with environmental and spatial data. The ideal graduate student will have some experience in computational biology; including population genomics and/or quantitative genetics. There is plenty of room to pursue particular interests in evolutionary and ecological genomics, genetic mechanisms underlying response to environmental cues, adaptive introgression or the origin of species barriers depending on the interest and experience of the candidate.

MS Position: Identifying the appropriate seed sources for restoration efforts can be challenging, particularly for geographically isolated populations in the face of changing climates where historical isolation or contemporary fragmentation may have contributed to genetic differences important to adaptation across a species' range. This project will use genomic data to assess connectivity across fragmented grassland communities for three native forbs commonly used in restoration and will quantify genotype-environment associations for application to seed movement in the context of restoration. The MS student will have some experience in botany, molecular ecology/population genetics, and/or bioinformatics for genomic data analyses, and be prepared to conduct some field-based research in a collaborative environment.

For more information on the Hamilton Lab and the Schatz Center for Tree Molecular Genetics visit the lab website at <http://www.jillahamilton.com> and <https://ecosystems.psu.edu/research/centers/schatz>. In addition, for more information on the Department of Ecosystem Science and Management at Penn State visit <https://ecosystems.psu.edu/>. State College is a vibrant university town located in central Pennsylvania close to several major centers with fantastic opportunities for outdoor recreation year-round. Interested students are encouraged to contact Dr. Hamilton (jvh6349@psu.edu). Please include a brief description of your research interests, a writing sample, and a CV in your email. The positions are fully-funded and includes an annual salary, a tuition waiver and are open to US or international students.

Jill Hamilton Director, Schatz Center in Tree Molecular Genetics Ibberson Chair of Silviculture Research Department of Ecosystem Science and Management Pennsylvania State University University Park, PA, USA 16802 (she/her/hers)

"Hamilton, Jill" <jvh6349@psu.edu>

SGN Frankfurt 2 MutationEvolution

Job announcement ref #11-22001

The Senckenberg Gesellschaft für Naturforschung (SGN) is a member of the Leibniz Association and is based in Frankfurt am Main, Germany. SGN conducts natural history research with almost 800 employees and research institutions in six federal states. Within SGN, the Senckenberg Biodiversity and Climate Research Centre (SBiK

F) explores the interactions between biodiversity, climate, and society.

For the DFG funded project "Temperaturabhängigkeit der Punktmutationsrate: unterliegende Faktoren und Prozesse", Senckenberg BiK-F invites applications for a PhD Position (part time, 65%)

The project deals with the questions how mutations are the fuel of evolution. According to a recent publication, the mutation rate depends on environmental factors, e.g. the temperature. In the framework of a DFG-project, we want to tackle the following important questions: i What are the processes behind the observed thermal optimum curve of the mutation rate? - What processes drive the variation in mutation rate? - Why does the mutation rate increase toward both extreme temperatures? - What determines the position of the optimum of the mutation rate on the temperature scale? - Is it a species-specific constant or does it evolve in response to local temperature condition?

We are seeking a highly motivated PhD student (m/f/d) for 36 months to carry out the experiments and publish the results.

Your tasks: - Carry out experimental work with the non-biting midge *Chironomus riparius* in a highly modern experimental facility - Molecular experimental assessment of oxidative stress - Bioinformatical determination of mutation rates from whole genome resequencing data with existing Pipelines

Your profile: - Master degree in a relevant area (Population Genomics, Genetics, Molecular Ecology, Molecular Biology, Biodiversity Genomics, et al.) - Familiarity with bioinformatic (big) data analysis - Good written and oral communication skills (English and/or German) - Required skills (either proven or convincingly demonstrated willingness to acquire rapidly): - analysis of huge amounts of NGS data - experimental work with living animals - molecular laboratory skills - Interest to collaboratively work in an interdisciplinary, international Team

What is awaiting you? Salary and benefits are according to a part-time public service position in Germany (TV-H E 13, 65%). The position is a 36-months fixed-term post, starting as soon as possible.

The Senckenberg Biodiversity and Climate Research Centre supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference.

The place of employment will be Frankfurt am Main, Germany. The employer is the Senckenberg Gesellschaft

für Naturforschung.

You would like to apply? Please include the reference to this position (ref. #11-22001) in the subject line and include a cover letter describing your motivation to apply, a detailed CV, relevant credentials and certificates, if available: list of publications, and contact details of 2 potential referees. Please submit your application via e-mail as a single PDF file or via our online application tool on our website to:

Senckenberg Gesellschaft für Naturforschung Senckenberganlage 25 60325 Frankfurt am Main E-Mail: recruiting@senckenberg.de For scientific enquiries please contact Prof. Dr. Markus Pfenninger. Email: markus.pfenninger@senckenberg.de.

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Job Announcement ref.#12-22005

The Senckenberg Gesellschaft für Naturforschung (SGN) is a member of the Leibniz Association and is based in Frankfurt am Main, Germany. The LOEWE Centre for Translational Biodiversity Genomics (LOEWE-TBG), <https://tbg.senckenberg.de>, is a joint venture of the Senckenberg Gesellschaft für Naturforschung (SGN), Goethe-University Frankfurt, Justus-Liebig-University Giessen and Fraunhofer Institute for Molecular Biology and Applied Ecology IME aiming to intensify biodiversity genomics in basic and applied research. We establish a new and taxonomically broad genome collection to study genomic and functional diversity across the tree of life and make genomic resources accessible for societal demand driven applied research.

For the LOEWE funded Centre for Translational Biodiversity Genomics Centre (LOEWE-TBG), Project area Functional Environmental Genomics, Senckenberg invites applications for a

PhD Candidate (m/f/d) Evolutionary Ecotoxicology (part-time, 26 hours/week)

In this project, we want to prove the utility of a recently developed metazoan mutation rate test for application on potentially mutagenic substances in ecotoxicology. The goal is to standardise the test for routine application in national and international regulatory frameworks. In addition, the position offers the possibility to explore the evolutionary consequences of stressor

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SGN Frankfurt Evolutionary Ecotoxicology

Job Announcement ref.#12-22005

The Senckenberg Gesellschaft für Naturforschung (SGN) is a member of the Leibniz Association and is based in Frankfurt am Main, Germany. The LOEWE Centre for Translational Biodiversity Genomics (LOEWE-TBG), <https://tbg.senckenberg.de>, is a joint venture of the Senckenberg Gesellschaft für Naturforschung (SGN), Goethe-University Frankfurt, Justus-Liebig-University Giessen and Fraunhofer Institute for Molecular Biology and Applied Ecology IME aiming to intensify biodiversity genomics in basic and applied research. We establish a new and taxonomically broad genome collection to study genomic and functional diversity across the tree of life and make genomic resources accessible for societal demand driven applied research.

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The MolecularEcology group (<https://www.senckenberg.de/en/institutes/sbik-f/molecular-ecology/>) is working on the genomic basis of adaptation to environmental change in populations. We investigate phenotypic and genomic variation in and between ecological key species in order to reveal functional similarities and differences of environmental tolerance across taxa and ecosystems. We combine state-of-art tools in genome sequencing, assembly and annotation

with evolutionary theory, and laboratory and natural experiments to address current societal challenges like climate change. We actively develop conceptual frameworks and new bioinformatic tools to support our research.

Your tasks

Carry out experimental work with the non-biting midge *Chironomus riparius* in a highly modern experimental facility
Performing the ensuing bioinformatic analyses from whole genome resequencing data with existing pipeline-
s
Planning and organising international ring-tests

Your profile

Master degree in a relevant area (Ecotoxicology, Population Genomics, Genetics, Molecular Ecology, Molecular Biology etc.)
Familiarity with bioinformatic (big) data analysis
Good written and oral communication skills (English and/or German)
Interest to collaboratively work in an interdisciplinary, international team
Required skills (either proven or convincingly demonstrated willingness to acquire rapidly):

Analysis of huge amounts of NGS data
Experimental work with living animals

There will be a partner PhD project working on environmental influences on the mutation rate with the same organism (*Chironomus riparius*, a non-biting midge), allowing to share experimental and bioinformatical experience and experimental tasks.

What is awaiting you?

An interesting task in a dynamic team of researchers in an international research group and joining the new LOEWE TBG excellence centre with its 20 new research groups
A relevant and timely research topic for a PhD project at the interface of molecular technology development, ecology, and human health
Flexible working hours - dual career service - leave of absence due to family reasons (certified by "auditberufundfamilie") - parent-child- office - annual special payment - company pension scheme - Senckenberg badge for free entry in museums in Frankfurt - leave of 30 days/year

Place of employment: Frankfurt am Main

Working hours: Part time (65% position, 26 hours/week)

Type of contract: 3 years, starting as soon as possible

Salary: according to the German collective agreement TV-H (pay grade E 13)

The Senckenberg Gesellschaft für Naturforschung supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The

employer is the Senckenberg Gesellschaft für Naturforschung.

How to apply

Please send your application, mentioning the reference of this job offer (ref. #12-22005) until 10 March 2022 (deadline), by e-mail (attachment in a single pdf document) including a brief cover letter detailing your research interests and experience (1 page), a CV and copies of your certificates, transcripts and grades to:

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SGN Frankfurt Marine Biodiversity eDNA

Job announcement ref. #02-22001

The Senckenberg Gesellschaft für Naturforschung (SGN) was founded in 1817 and is one of the most important research institutions in the field of biodiversity. At its eleven locations throughout Germany, scientists from over 40 nations conduct cutting-edge research on an international scale. Senckenberg am Meer in the port city of Wilhelmshaven is the northernmost institute of the society. It cooperates with important research institutions in German marine research as well as colleges and universities. Located directly on the North Sea, the Wilhelmshaven site also offers local recreation in unspoilt nature as well as a wide range of cultural activities.

The Institute Senckenberg am Meer, Wilhelmshaven, invites applications for a PhD position in the ERA RESTORESEAS Project for a

PhD position (m/f/d)

Present and past biodiversity characterization of selected marine biomes using eDNA

The project is embedded within an international ERA-JPI-Water project focusing on marine forests of animals, plants and algae: nature-based tools to protect and restore biodiversity. E-DNA (including sedaDNA) samples, collected with focus on marine biomes off Mauritania (seagrass meadows, deep-water coral mounds), will be analyzed on present and past biodiversity shifts.

The Mauritanian Upwelling zone - known for its high biological productivity - is characterized by oxygen-depleted and nutrient-rich water masses, environmental factors predestined for successful sedimentary e-DNA analyses. E-DNA metabarcoding studies profit from and contribute to the ongoing efforts of establishing a comprehensive DNA-library of Mauritanian marine life - a valuable tool for (future) conservation efforts.

Your profile:

MSc. in bio- or geosciences
Expertise in taxonomy and genetic methods
Interest in field-based ecology and affinity to advanced computational tools
Team work capabilities in a multidisciplinary team
Fluency in English and German (written and spoken), French or Arabic is also highly welcomed
Willingness to participate on offshore cruises and field trips to Mauritania is essential

Salary and benefits are according to a part time public service position in Germany (TV-H E13, 65 %). The position is a 3-year fixed-term post, starting as soon as possible, ideally on April 1st, 2022.

The place of employment is at the site Senckenberg am Meer in Wilhelmshaven.

The Senckenberg Gesellschaft für Naturforschung supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The place of employment will be Wilhelmshaven, Germany. The employer is the Senckenberg Gesellschaft für Naturforschung.

How to apply:

Please send your application, mentioning the reference of this job announcement (ref. #02-22001) before March 13, 2022 by e-mail (attachment in a single pdf document) and include a letter outlining your suitability for the post, a detailed CV, your complete academic grades, transcripts, credentials and characters and contact details of 2 references:

Senckenberg Gesellschaft für Naturforschung

Senckenberganlage 25

60325 Frankfurt am Main

E-Mail: recruiting@senckenberg.de

For scientific enquiries please get in contact with Prof. Dr. André Freiwald via e-mail andre.freiwald@senckenberg.de

Thank you for your consideration!

Yours sincerely

Isabel Gajcevic, M.A.

["recruiting@senckenberg.de"](mailto:recruiting@senckenberg.de)
<recruiting@senckenberg.de>

SGN Frankfurt MutationRateEvolution

Job announcement ref. #11-22008

The Senckenberg Gesellschaft für Naturforschung (SGN) is a member of the Leibniz Association and is based in Frankfurt am Main, Germany. SGN conducts natural history research with more than 800 employees and research institutions in six federal states. Within SGN, the Senckenberg Biodiversity and Climate Research Centre (SBiK-F) explores the interactions between biodiversity, climate, and society.

For the DFG funded project "Temperature dependence of the point mutation rate: underlying factors and processes", Senckenberg BiK-F invites applications for a

PhD Position(part time, 65%)

The project deals with the questions how mutations are the fuel of evolution. According to a recent publication, the mutation rate depends on environmental factors, e.g. the temperature. In the framework of a DFG-project, we want to tackle the following important questions:

What are the processes behind the observed thermal optimum curve of the mutation rate?
What processes drive the variation in mutation rate?
Why does the mutation rate increase toward both extreme temperatures?
What determines the position of the optimum of the mutation rate on the temperature scale?
Is it a species-specific constant or does it evolve in response to local temperature condition?

We are seeking a highly motivated PhD student (m/f/d) for 36 months to carry out the experiments and publish the results.

Your tasks

Carry out experimental work with the non-biting midge *Chironomus riparius* in a highly modern experimental facility
Molecular experimental assessment of oxidative stress
Bioinformatical determination of mutation rates from whole genome resequencing data with existing pipelines

Your profile

Master degree in a relevant area (Population Genomics, Genetics, Molecular Ecology, Molecular Biology, Biodi-

versity Genomics, et al.) Familiarity with bioinformatic (big) data analysis Good written and oral communication skills (English and/or German) Required skills (either proven or convincingly demonstrated willingness to acquire rapidly):

analysis of huge amounts of NGS data experimental work with living animals molecular laboratory skills Interest to collaboratively work in an interdisciplinary, international team

What is awaiting you?

Salary and benefits are according to a part-time public service position in Germany (TV-H E 13, 65%). The position is a 36-months fixed-term post, starting as soon as possible.

The Senckenberg Biodiversity and Climate Research Centre supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The place of employment will be Frankfurt am Main, Germany. The employer is the Senckenberg Gesellschaft für Naturforschung.

You would like to apply?

Please include the reference to this position (ref. #11-22008) in the subject line and include a

cover letter describing your motivation to apply, a detailed CV, relevant credentials and certificates, optional: list of publications, contact details of two potential referees. We welcome applications until the position is filled.

Please submit your application via e-mail as a single PDF file or via our online application tool on our website to:

Senckenberg Gesellschaft für Naturforschung

Senckenberganlage 25

60325 Frankfurt am Main

E-Mail: recruiting@senckenberg.de

For scientific enquiries please contact Prof. Dr. Markus Pfenninger.

Email: markus.pfenninger@senckenberg.de.

Yours sincerely,

Isabel Gajcevic, M.A.

Personalsachbearbeiterin

SENCKENBERG Gesellschaft für Naturforschung

(Rechtsfähiger Verein gemäß § 22 BGB)

Senckenberganlage 25

60325 Frankfurt am Main

Besucheradresse: Mertonstraße 17-21, 60325 Frankfurt am Main (1. OG)

Telefon/Phone: 0049 (0)69 / 7542 -

Leiterin Personal & Soziales

- 1458 Loke, Uta

Stellv. Leiterin Personal & Soziales

- 1319 Elsen, Carina

Team Personalbeschaffung (Recruiting)

- 1478 Gajcevic, Isabel

- 1564 di-Biase, Maria

- 1204 Reiting, Jasmin

Fax: 0049 (0)69 / 7542-1445

Mail: recruiting@senckenberg.de

Direktorium: Prof. Dr. Klement Tockner, Prof. Dr. Angelika Brandt, Dr. Martin Mittelbach, Prof. Dr. Andreas Mulch, Prof. Dr. Karsten Wesche;

Präsidentin: Dr. h.c. Beate Heraeus;

Aufsichtsbehörde: Magistrat der Stadt Frankfurt am Main (Ordnungsamt)

Mitglied der Leibniz-Gemeinschaft

Vernetzen Sie sich mit uns: www.senckenberg.de/-socialmedia Isabel Gajcevic

<recruiting@senckenberg.de>

StockholmU Palaeogenomics

PhD STUDENT POSITION

- Analysis of ancient DNA from wild animals on a million-year timescale.

- Based at the Centre for Palaeogenetics and Department of Zoology (Stockholm University).

- Subject area: Population genetics.

- Application deadline: 22 April 2022.

PROJECT DESCRIPTION

The Department of Zoology invites applications for a four-year PhD position based at the Centre for Palaeogenetics in Stockholm. The project is aimed at analyzing ancient DNA on a million-year timescale. The analyses will use state-of-the-art genomic methods, and will fo-

cus on remains from several different vertebrate species dated to the Middle and Early Pleistocene (0.1 - 2.6 million years ago). The PhD project is part of a 10-year research programme funded by the Swedish Research Council, aiming to trace the evolution of several mammalian species throughout their entire existence. The goals of this research programme are to investigate the processes of speciation, adaptation and hybridization and how these relate to past environmental change. The PhD student will join the research group led by Love Dalén (see www.palaeogenetics.com/ld) at the Centre for Palaeogenetics located on the Stockholm University campus.

SELECTION CRITERIA

The selection among the eligible candidates will be based on their capacity to benefit from the training. The following criteria will be used to assess this capacity: the candidates' documented knowledge in a relevant field of research, written and oral proficiency in English, the capacity for analytical thinking, the ability to collaborate, as well as creativity, initiative, and independence. The assessment will be based on previous experience and grades, the quality of the degree project, references, relevant experience, interviews, and the candidate's written motivation for seeking the position. In addition, experience in population genetics, bioinformatics and laboratory DNA analysis are important qualifications. For complete information on the qualification requirements, please see the full advertisement (link below).

RESEARCH ENVIRONMENT

The PhD student will be based at the Centre for Palaeogenetics (CPG) in Stockholm, which is a newly established research centre with state-of-the-art laboratory facilities and modern offices and meeting areas. CPG is jointly funded by Stockholm University and the Swedish Museum of Natural History. The centre is a multidisciplinary research environment with staff from departments in biology, archaeology, and geology, who are all dedicated to analyses of ancient and modern DNA to investigate prehistory. CPG currently houses a staff of 22 persons, including 6 PhD students and 8 postdocs. It is an international workplace, with the current staff coming from 12 different countries. Located on the Stockholm University campus, CPG is part of a vibrant genomics community in Stockholm, by many considered one of the most beautiful cities in the world.

HOW TO APPLY

Apply for the PhD student position using Stockholm University's recruitment system. It is the responsibility of the applicant to ensure that the application is complete in accordance with the instructions in the

advertisement, and that it is submitted before the deadline.

LINK TO RECRUITMENT SYSTEM

<https://www.su.se/english/about-the-university/-work-at-su/available-jobs/phd-student-positions-1.507588?rmpage=job&rmjob=17418&rmlang=UK>

Stockholm University contributes to the development of sustainable democratic society through knowledge, enlightenment and the pursuit of truth.

Love Dalén <Love.Dalen@nrm.se>

Tours France InsectsEvolutionPesticides

1 PhD position: Endocrine disruptors and maternal care in insects

We invite applications for a 3-years PhD position at the Insect Biology Research Institute (IRBI) located at the University of Tours, France. The project aims to better understand the hormonal regulation of parental care in insects and to analyse the consequences of exposure to endocrine disruptors (particularly pesticides) on the evolution of care. We will focus on the European earwig, a species in which mothers care for both eggs and juveniles, and which is often used as pest control in agriculture. The PhD student will identify the hormones involved in the regulation of maternal care in this species, and test whether and how certain insecticides or other endocrine-disrupting molecules could affect the evolution of family life in insects. The project includes standard laboratory setups, behavioural experiments, pesticide and hormone manipulation, life-history traits measurements and proteomic analyses. Depending on the student's interests, it may also include transcriptomic analyses, physiological measurements, immune assays, and gut microbial analyses.

The thesis is co-financed by the Centre-Val de Loire region and the national Ecophyto 2+ programme.

The city of Tours is a beautiful historic place located near Paris and the Loire Valley and hosts many students and a rich social and cultural life (<http://www.tours-tourism.co.uk/>). The University of Tours includes many excellent scientific institutions, among which the Institut de Recherche sur la Biologie de l'Insecte. This institute offers an excellent, international, dynamic and interactive scientific environment with state-of-the-art, newly equipped laboratories. The person recruited will

work under the co-direction of Dr Joël Meunier and Dr Charlotte Lécureuil. More information about the scientific work of our group on earwigs can be found here: <http://joelmeunier.wixsite.com/researchpage>. The position requires a master's degree in biology (or a related field) completed by August 2022 at the latest. The successful candidate should have a strong background in insects physiology, evolutionary biology and/or behavioural ecology. He/she should also show an interest in the development of new molecular tools, be motivated, energetic, independent and a good team player. People of all nationalities are encouraged to apply.

Interested candidates should send applications to Joël Meunier (joel.meunier@univ-tours.fr) and Charlotte Lécureuil (charlotte.lecureuil@univ-tours.fr). The application should be sent as a single pdf containing a motivation letter (max. 1.5 pages), a curriculum vitae (with grades of Master classes), a summary of the Master thesis (max. 500 words) and the email address of 2-3 potential referees.

The deadline for applications is 27 April 2022 (included).

The starting date for the position is September 2022.

Joël Meunier, PhD, HDR

CNRS Researcher

Institut de Recherche sur la Biologie de l'Insecte (IRBI)
- UMR 7261 Université de Tours UFR des Sciences
et Techniques Avenue Monge, Parc Grandmont 37200
Tours, FRANCE

Office: +33 (0)2 47 36 73 93 <https://irbi.univ-tours.fr/recherche/> Joël Meunier <joel.meunier@univ-tours.fr>

UBern Biodiversity

1 PhD position within our new research project entitled: Small structures to promote biodiversity in agricultural landscapes Farmland biodiversity is still declining in Switzerland and around the world despite all efforts and increasing money invested in its protection. In this context, small structures, such as piles of branches or stones, are more and more popular and recommended as greening measures. It is quite intuitive that a multitude of organisms benefit from these structures, however, there is very little scientific evidence behind (reviewed in Rossier et al. 2021, in German). The goal of the project is to determine quantitatively which species are favoured by the presence of piles of branches or stones

and to better understand the role of these small structures on the functionality of our agroecosystems (e.g. as a stepping stone for animal dispersal). Ultimately, the project will deliver evidence-based recommendations on when, where and how to place these structures in the landscape to conserve and restore biodiversity. While stoat (*Mustela erminea*) and common weasel (*Mustela nivalis*) are the focal species, other indicators among reptiles and invertebrates shall be selected. Stoats and weasels will be monitored using non-invasive genetic sampling with the help of scat-detection dogs.

The candidate holds a MSc degree, shows a strong interest in biodiversity conservation and masters modern analytical techniques. Knowledge of genetic tools would be advantageous, though not prerequisite. English literacy is important, while written proficiency in German or French with oral competences in the other language is necessary, notably for dealing with local stakeholders and financing partners.

Please email a letter of motivation with CV, summary of MSc thesis, as well as name, phone number and email address of two referees to jean-yves.humbert@iee.unibe.ch. More information about our research group ' which is part of the Division of Conservation Biology at the University of Bern headed by Prof. Raphaël Arlettaz ' can be found here: https://www.cb.iee.unibe.ch/about_us/pd_dr_humbert_jean_yves/index_eng.html Application deadline: 24 April 2022; interviews in Bern on 5 May 2022. Envisioned starting date: July-August 2022; duration: 3 years; salary according to SNSF rules.

PD Dr Jean-Yves Humbert University of Bern Institute of Ecology and Evolution Office: Erlachstrasse 9a Trakt 2 Mail: Baltzerstrasse 6, CH-3012 Bern Tel. +41 31 631 31 73 jean-yves.humbert@iee.unibe.ch http://www.cb.iee.unibe.ch/about_us/pd_dr_humbert_jean_yves/index_eng.html

"jean-yves.humbert@iee.unibe.ch" <jean-yves.humbert@iee.unibe.ch>
"jean-yves.humbert@iee.unibe.ch" <jean-yves.humbert@iee.unibe.ch>

Samuel Yeaman <samuel.yeaman@ucalgary.ca>

UCalgary AdaptationTheoryGenomics

Yeaman Lab Department of Biological Sciences, University of Calgary

I am seeking to recruit a PhD student interested in studying how evolution works. My lab has mainly pursued questions related to adaptation using theory & simulation approaches to generate predictions and genomic data to test them. We have worked on a range of organisms, from parasitic nematodes to stickleback to conifers, and have ongoing projects in many of these areas. I'm also very open to helping you develop a new study area of your own design. Additionally, I am very interested in working on similar questions in cultural evolution, and would be particularly enthusiastic about collaborating with a student on work in this area, as a complement to work on genetic evolution. The genetics of local adaptation to climate in conifers remains a main area of research in my lab, so field work in the Canadian Rockies is always an option. On the other hand, if you're more of a dry-lab person - and this applies to most of my lab members, there is a wealth of existing data and plenty of opportunities to generate and analyse new data.

For international students: I would love to hear from you! It is sometimes hard for me to evaluate the meaning of grading systems in different countries, so if you can provide some context there, that would be really helpful for me (e.g. explain what percentage of students achieve similar marks, point out particularly noteworthy achievements). Similarly, if some kind of adversity has meant you might not look as competitive based on your CV, please let me know. I'm most interested in recruiting someone with great ideas and curiosity - and this isn't necessarily well-represented by the traditional CV.

TO APPLY: Please send a CV and a short description of your academic interests to samuel.yeaman@ucalgary.ca, along with the names and emails of three people I could contact as references. For students that have published: please let me know what you contributed to each paper. Please also send a sample of your writing - something that represents your best work (not necessarily published). I will begin reviewing applications on March 21st 2022, but please contact me to check in if you need to make a quicker decision.

UFribourg 2 ComputationalBiology

****PhD position in Computational Conservation Biology****

Statistical and Computational Biology Group, Prof. Wegmann, University of Fribourg, Switzerland

****Who we are****

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

****Your tasks****

We seek a highly motivated PhD student to support our conservation efforts, particularly regarding African mammals. The successful candidate will work closely with our partners at the Chinko Nature Reserve in Central Africa (<https://www.africanparks.org/the-parks/-chinko>) to monitor trends in population abundances. The work involves

- Curating ecological big data such as camera trap images and records from transects.
- Automating these curation tasks (where possible) using Machine Learning.
- Developing computational methods to identify trends in ecological data.
- Applying these methods to inform conservation management.

The position is fully funded with a competitive salary for four years, with the possibility to extend by one additional year. The successful candidate should ideally start in Summer 2022. The research does not involve field work, but a visit to the Chinko Nature Reserve can be arranged.

****What we offer****

We offer a stimulating research environment, well embedded in the strong bioinformatic and conservation

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

****What you bring****

Either A) a master degree in bioinformatics, computational biology, computer science, statistics or a related field, and a strong interest in applying these skills to support the conservation of nature, or B) a master degree in ecology, conservation, evolutionary biology or a related field and a strong interest in computational methods. While experience in programming is not required, we expect candidates to be highly motivated to acquire skills in programming (R and C++) and statistical inference, for which we provide state-of-the-art training. Good knowledge of written and spoken English is expected.

****How to apply****

To receive full consideration, apply before May 15 2022 at <https://forms.gle/XwShdJJECqe1X7Sn8> with a single PDF file including

- a brief summary of your previous research and motivation for the position,
- a Curriculum Vitae,
- copies of degree certificates and list of coursework, including grades,
- names, addresses and emails of two professional references.

****Further information on our lab:****

- <http://www.wegmannlab.com>
- <https://www.sib.swiss/daniel-wegmann-group>

****Recent papers on the topic****

- <https://onlinelibrary.wiley.com/doi/10.1111/ecog.05411> - <https://www.sciencedirect.com/science/article/abs/pii/S0006320718315714> - <https://www.sciencedirect.com/science/article/abs/pii/S0006320716307492> Prof. Dr. Daniel Wegmann
Department of Biology University of Fribourg Chemin du Musi, 1/2e 10 1700 Fribourg Switzerland

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

<http://www.unifr.ch/biology/research/wegmann/> —

****PhD position in Ancient DNA Bioinformatics****

Statistical and Computational Biology Group, Prof. Wegmann, University of Fribourg, Switzerland

****Who we are****

We are a young, international, interdisciplinary and enthusiastic research group at the University of Fribourg, Switzerland, aiming at understanding the evolutionary and ecological processes shaping the

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UHelsinki 7 ForestTreeGenomics

<https://www2.helsinki.fi/en/open-positions/doctoral-researchers-the-centre-of-excellence-in-tree-biology> The Centre of Excellence in Tree Biology invites applications for

7 DOCTORAL RESEARCHER POSITIONS in the following research projects

- Project 1: Stomatal function and vascular connections. The project aims at molecular-level understanding of guard cell signalling and function in response to environmental stimuli. We will also address molecular connections between stomatal regulation and vascular function (e.g., water transport, systemic signals). We will utilize proteomics, biochemical and molecular genetics approaches in Arabidopsis and physiological measurements of stomatal and vascular parameters in Arabidopsis and trees. Supervisors: Kangasjärvi, Sierla, Shapiguzov, Waszczak
- Project 2: The role of energy metabolism in carbon source effects. The project aims at: (i) dissecting metabolic and signalling interactions between chloroplasts and mitochondria and (ii) developing new methods for phenotyping photosynthesis and respiration (including advanced chlorophyll fluorometry, gas exchange and oxygen microsensor approaches). Supervisors: Kangasjärvi, Shapiguzov, Sierla
- Project 3: Morphogenesis and functionality of phloem. Following our extensive previous work of phloem development, we are taking various genetic and molecular approaches to deepen our understanding of phloem at

cellular and functional levels. Supervisors: Helariutta, Mähönen, Hölttä, Sierla

- Project 4: Cambial factors. Guided with a comparative single cell transcriptome analysis of Arabidopsis, birch and poplar cambia, the aim in this project is to identify through molecular genetics key loci driving enhanced growth and carbon sink in trees. Supervisors: Mähönen, Kucukoglu-Topcu

- Project 5: Source-sink. By combining computational modelling and experimentation, in this project, we will explore how mutations affecting function of stomata, conductive tissue or cambium and thus, consequently, carbon sequestration in wood, will potentially feedback to each other, and to other aspects in tree physiology. Supervisors: Hölttä, Mähönen, Kucukoglu-Topcu

- Project 6: Distribution and role of open chromatin in silver birch and Scots pine genomes. Open chromatin sequencing (ATAC-seq) allows identification of regulatory active regions of the genome. In this project, the aim is to study regulatory genomic regions in conjunction with gene expression and population genetic data from both functional genetics and/or evolutionary point of view depending on the interests of the candidate. Supervisors: Pyhäjärvi, Salojärvi

- Project 7: Genomic breeding. By combining our understanding of physiology and genetics in both trees and Arabidopsis with the phenotypic and genomic data of the current silver birch breeding population in Finland, our aim is to develop a model for genomic breeding in this economically highly important boreal tree species. Supervisors: Nieminen, Pyhäjärvi, Salojärvi

The doctoral researchers will be employed full-time for a fixed term of 4 years in one of the CoE research groups. The earliest starting date is 1 April 2022.

We seek highly motivated candidates with excellent communicational skills, who can work both independently and in a team. Fluency in English is expected. The candidate should have MSc degree in genetics, molecular biology, evolutionary biology, biology or related fields and to have proven academic ability to take initiative and think independently as well as experience in working with plants. The background and interests of the successful candidates will determine their specific lines of research within the CoE.

For general information, contact the CoE Coordinator Karolina Blajacka: karolina.blajacka@helsinki.fi

For science related questions, contact the CoE PIs: Ykä Helariutta (yrjo.helariutta@helsinki.fi), Jaakko Kangasjärvi (jaakko.kangasjarvi@helsinki.fi), Ari Pekka Mähönen (aripekka.mahonen@helsinki.fi),

Teemu Hölttä (teemu.holtta@helsinki.fi), Tanja Pyhäjärvi (tanja.pyhajarvi@helsinki.fi), Jarkko Salojärvi (jarkko.salojarvi@helsinki.fi), Kaisa Nieminen (kaisa.p.nieminen@luke.fi), Alexey Shapiguzov (alexey.shapiguzov@helsinki.fi), Melis Kucukoglu-Topcu (melis.kucukoglu@helsinki.fi), Maija Sierla (maija.sierla@helsinki.fi), Cezary Waszczak (cezary.waszcak@helsinki.fi)

The position is fixed-term (4 years) with a six-month probation period. Salary is based on levels 1â4 of the demands level chart for teaching and research personnel in the salary system of Finnish universities. In addition, the appointee will be paid a salary component

— / —

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>

UKonstanz LaplandBirdBehaviour

What makes groups successful?

The Griesser lab (Department of Biology & Centre for the Advanced Study of Collective Behavior, University of Konstanz) is looking for 1 PhD candidate to investigate the consequences of the interplay between individual and group social phenotype in a wild bird species. Individual fitness is the currency of Darwinian evolution, and largely depends on an individual's social phenotype (e.g., cooperativeness, aggressivity, stress sensitivity). However, in animals living in enduring social groups, an individual's fitness is also affected by the group's social phenotype. Although the latter component is rarely considered, it is potentially quite important: successful groups should be better at coordinating their behaviours, e.g., during foraging or predator encounters.

This PhD project will investigate these links in wild population of Siberian jays (*Perisoreus infaustus*) in Swedish Lapland, monitored since 1989. Our study population is located in both pristine and managed forests. This bird species lives in stable, enduring groups composed of a breeding pair and up to 4 non-breeders, and we follow individuals in up to 90 groups throughout their life to collect life-history data and standardized behavioural data. Non-breeders differ largely in how well they are integrated into the group. The PhD project will combine field experiments with existing long-term data to

investigate the interplay between individual and group social phenotype, and its consequences. A short description of our past research can be found here: <https://www.youtube.com/watch?v=JaH6wjAYAiE> You will join the Griesser lab and the interdisciplinary team at the Excellence Cluster for the Advanced Study of Collective Behaviour at the University of Konstanz. The position can begin April 2022 (latest 1st July 2022) and will be fully funded for three years (65%, salary scale 13 TV-L).

Requirements: - ——— MSc in behavioural ecology, ecology, evolutionary biology, or similar; - ——— Field experience of behavioural observations and experimental work; - ——— Bird handling experience (including mist netting); - ——— Highly motivated and sociable personality; - ——— Project management skills; - ——— Ability to work both independently and in a team; - ——— Driver's license (manual transmission); - ——— Basic knowledge of X-country or downhill skiing is an advantage.

Application will be reviewed as soon as received, position remains open until filled.

Applications should be sent to michael.griesser@uni-konstanz.de and include a motivation letter, a CV, a research statement (less than 1 page with academic background, research experience, interests, and goals), and names of two referees.

The University of Konstanz is an equal opportunity employer that is committed to providing employment opportunities to all qualified applicants without regard to race, colour, religion, age, sex, sexual orientation, gender identity, national origin, or disability. It seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourage women to apply (see equal opportunity).

If you have questions, contact michael.griesser@uni-konstanz.de

Michael Griesser <mgriesser@ab.mpg.de>

ULausanne Evolutionary Conservation Biol

The University of Lausanne (UNIL) is a leading international teaching and research institution, with over 5,000 employees and 17,000 students split between its Dorigny campus, CHUV and Epalinges. As an employer, UNIL encourages excellence, individual recognition and responsibility.

The group of Prof. Claus Wedekind is proposing a graduate assistant (assistant diplômé) position in Evolutionary Conservation Biology at the Department of Ecology and Evolution, University of Lausanne, Switzerland. The graduate assistant will join a dynamic team working on the selective forces that act on freshwater fish, i.e. the effects of human activities in interaction with natural and sexual selection. For more information, see <https://www.unil.ch/dee/wedekind-group>.

Expected start date: 01.08.2022 or to be agreed
Contract length: The initial contract is for 1 year, renewable twice for two years, up to a maximum of 5 years in total
Activity rate: 85% Workplace: Lausanne-Dorigny

The position is in the context of a larger project that focuses on induced evolution in salmonid fish (whitefish, brown trout, grayling, and lake char) and combines fieldwork, experimental work in the laboratory, molecular genetics and bioinformatics, and population modelling. We are collaborating with several cantons and with other research groups at UNIL and elsewhere.

Graduate assistants (assistants-diplômés) in our department assist in teaching and supervise master students (up to 25% of the activity) and in the organization of the equipment and labs or other institutional tasks (5% of the activity). At least 55% of the working time is devoted to personal thesis research.

We are seeking candidates with a Master in Biology and with a strong interest in one or several of the following fields: fish biology, population genetics, population management, life history, bioinformatics, evolutionary ecology. The working language in the group and in the department is English for all scientific matters. Knowledge in French and/or German would be a plus.

We offer a nice working place in a multicultural, diverse and dynamic academic environment, opportunities for professional training, a lot of activities, and other benefits to discover. The Department of Ecology and

Evolution in Lausanne University hosts research groups working on a broad range of topics, producing a rich intellectual and social life. The campus is located on the shore of the Geneva Lake, with the view on the Alps.

Please use on the UNIL recruitment platform at <https://bit.ly/3sAZeNb> to upload your full application containing a cover letter with a short description of your research interests and research experience, your Curriculum vitae, a copy of your master certificate, contact details of two or three referees, and the Master's thesis summary (max. one page). Review of applications will begin 15.05.2022, but applications will be accepted until the position is filled.

UNIL is committed to equal opportunities and diversity: www.unil.ch/egalite UNIL supports early career researchers: www.unil.ch/graduatecampus

Claus Wedekind <claus.wedekind@unil.ch>

UNeuchatel ComparativeGenomicsButterflies

Unravel the genomic architecture and evolutionary impact of chromosomal fusion and fission in Lepidoptera

Barriers to gene flow that lead to reproductive isolation are essential for speciation. Large-scale genomic rearrangements through chromosomal fusion and fission may represent such barriers, but the underlying genomic features and their contribution to speciation are poorly understood. This project aims to resolve the genomic architecture and evolutionary impact of chromosomal fusion and fission in one of the most karyological diverse groups of butterflies - Erebia. You will generate chromosome-scale genome assemblies and analyse them with comparative genomic and phylogenomic methods. The goal is also to assess the impact of these chromosomal rearrangements on rates of speciation. The prospective PhD student will be supervised by Kay Lucek and be part of the Biodiversity Genomics group at the University of Neuchatel in Switzerland.

Your profile: Enthusiastic, self-driven, responsible, and highly-motivated; excellent communication and interpersonal skills in verbal and written English; a strong work ethic. The ideal candidate brings strong conceptual thinking together with profound genomic and/or bioinformatic skills. Applicants should have a Master degree in evolutionary biology, genomics, bioinformatics, or close related fields. We offer you: A cutting-edge,

four-year position fully funded by the Swiss National Science Foundation (SNSF), based at the Institute of Biology, University of Neuchatel, Switzerland. The Institute offers a vibrant and interdisciplinary research environment, combining a broad spectrum of research activities in life sciences, including evolutionary genetics, conservation, ecology and microbial biology. Salary and social benefits are provided according to University of Neuchatel rules. Neuchatel is an enchanting historic Swiss city, well connected and offering a broad range of cultural and recreational activities.

Starting date: The anticipated starting date is the 1st of August 2022, with some flexibility.

Application: Motivated applicants should submit (1) a one-page letter describing yourself, your career goals, and your match to the above-mentioned project, (2) a CV describing your education, publications, and relevant work experience, (3) copies of undergraduate and masters/diploma transcripts, and (4) contact information of two references. The application deadline is 22nd of April 2022. Please, send all the information in a single PDF to Kay Lucek (kay.lucek@unibas.ch). For further questions, please contact me @ kay.lucek@unibas.ch

Kay Lucek <kay.lucek@unibas.ch>

UParis Saclay TransposableElementsAdaptation

[PhD advertisement Univ. Paris Saclay] ADAPTIVE ROLE OF TRANSPOSABLE ELEMENTS IN FRUIT TREES IN RESPONSE TO BIOTIC STRESS, deadline for application : 29 April 2022

We are seeking candidates for a PhD to join the Cornille's Lab (ECLECTIC group? : <http://moulon.inrae.fr/en/equipes/eclectic/>) working on the genomics and ecology of fruit tree-pest interactions at the laboratoire G?n?tique Quantitative et Evolution-Le Moulon at the Institut Diversit? ?cologie et ?volution du Vivant (<https://www.ideev.universite-paris-saclay.fr/en/>) at Universit? Paris Saclay (<https://www.universite-paris-saclay.fr/en> Ile-de-France, France) within the ANR PLEASURE project (<https://anr.fr/Project-ANR-21-CE20-0005>).

Keywords: adaptation, fruit trees, epigenomics - methylation, gene expression, evolution, pests?

Objectifs The aim of the PhD project is to investigate

the effect of TE insertion on gene expression in response to biotic stress in fruit trees, using a population genomics lens. To that aim, the PhD candidate will undertake a rigorous analysis of the impact of TE insertion polymorphism on gene expression in crop and wild populations of an emblematic fruit tree, the apple tree, for which a very large amount of genomic data is available. The PhD project is structured into two interconnected questions, that will be subsequently Investigated, which rely on exposure of crop and wild apple populations to pest attack and the investigation of the involvement of TEs in this stress response: 1) What is the effect of TE insertion on gene expression in response to biotic stress in a context of fruit tree domestication? 2) What is the impact of DNA methylation variants in TE repression in response to biotic stress in the context of fruit tree domestication? ? Methods -populations genomics of transposable elements; -epigenomics (methylation marks); -bioinformatics (scripting in perl/python/shell, access to informatics clusters); -experiments in controlled conditions (aphid rearing, apple culture) -molecular biology (RNA and DNA extraction).

Profile and skills required? Knowledge in 1) evolutionary biology and population genomics is required (in gene expression analyses or on transposable elements evolution will be a plus) and 2) bioinformatics (writing scripts, e.g., in perl/python/R/shell, access to computing clusters). Knowledge of 3) epigenomics will be a plus. The candidate should not necessarily be familiar with tree or insect models.

Collaborations? The PhD candidate will take advantage of the collaborative network involved in the project: CNRGV (molecular biology expert), URGI (expert on TE annotation), GQE-Le Moulon (expert in population and comparative genomics, fruit tree biology).

Application. Two steps process: - Before the 28th April: https://www.adum.fr/as/ed/voirproposition.pl?site=PSaclay&matricule_prop=39544 - The candidate will be selected by the lab between the 28th April to the 9th May to defend the project at the Doctoral school Science du V?g?tal in June 2022.

Feel free to contact directly at amandine.cornille@cnrs.fr
 Leader of the?Ecological genomics of multi-species interactions?group CNRS?Researcher G?n?tique Quantitative et ?volution - Le Moulon? Universit? Paris-Saclay -?INRAE - CNRS - AgroParisTech? Institut Diversit? Ecologie et Evolution du Vivant |?12 Route 128 |?91272 Gif-sur-Yvette |?France phone : +33 6 72 44 85 55 |?+33 1 69 33 23 52? Twitter:??@CornilleAmand or @PommierVerger Google Scholar profile :?https://scholar.google.com/-citations?user=EqIE2h8AAAAJ&hl=fr Personal page

:?http://moulon.inrae.fr/personnes/acornille/ Group page:??http://moulon.inrae.fr/en/equipes/eclectic/ On the ESEB-STN network on the ecological genomics of coevolution:?https://eseb.org/prizes-funding/special-topic-networks/stn-current-networks/ecological-genomics-of-coevolutionary-interactions/ On the wild apple orchard project:?https://www.ideev.universite-paris-saclay.fr/en/the-orchard?or @PommierVerger

Amandine Cornille <amandine.cornille@gmail.com>

USBohemia Czechia EvolutionaryGenomicsButterflies

Graduate position: USBohemia.Czechia.EvolutionaryGenomicsButterflies

New PhD Position: Evolutionary genomics of butterflies in the Brazilian Atlantic Forest (Please, feel free to distribute to all potential candidates) Open until the position is filled by the right candidate.

You will be part of an exciting research project studying species diversification and distributional patterns of Lepidoptera (butterflies and moths) of the Brazilian Atlantic Forest. The goal of the PhD position is to infer macroevolutionary drivers of extant ecological patterns along altitude and latitude, and to test competing hypotheses for understanding parapatric speciation on tropical mountain ranges.

You will generate new data using whole-genome resequencing to infer species-level phylogenies and to compute metrics of genomic regions of divergence between parapatric, sister species. It is expected that this framework will allow you to test the roles of abiotic factors (temperature, altitudinal gradients) in shaping the extant species and genetic diversity of butterflies in a tropical biodiversity hotspot.

Priority will be given to candidates who have co-authored at least one scientific publication (including submitted and accepted manuscripts). Experience with molecular phylogenetics, population genetics and/or analysis of high-throughput DNA sequencing data using bioinformatic pipelines is advantageous.

The results will be part of a larger multidisciplinary research aiming at determining the evolutionary mechanisms that shaped current Lepidoptera biodiversity patterns (centers of endemism and species richness) in the Atlantic Forest. This is a bilateral research project that brings together two teams in the Czech Repub-

lic (Biology Centre, CAS) and Brazil (University of Campinas). You will have the opportunity to carry out fieldwork in Brazil and to closely interact with Prof. André Freitas (<http://tiny.cc/Freitas>), Dr. Karina Silva-Brandão (<http://tiny.cc/SilvaBrandao>, LIB, Hamburg), and their research groups. As part of the international research activities, multiple avenues for networking will also be possible (for example, Prof. Niklas Wahlberg, Lund University, Sweden; <http://tiny.cc/Wahlberg>).

The applicant must have the following qualifications:
 - Master's degree in biology or related fields (must be awarded prior to the starting date).
 - Good communication skills in English, written and spoken.
 - Independence in learning and working, with documented productivity.

It is expected that you will enroll into the associated PhD program (4 years) at the Faculty of Sciences, University of South Bohemia (<https://www.prf.jcu.cz/en>). The scholarship will be a combination of research grant salary (50%, from the Biology Centre, Czech Academy of Sciences, <https://www.entu.cas.cz/en/>) plus student stipends (50% from the University of South Bohemia), fully covering living expenses with a comfortable margin in the Czech Republic. The research facility is in Ceske Budejovice, a charming historical city in the south of the country, within an easy reach of Prague and Vienna. Our working environment (Department of Ecology, led by Prof. Vojtěch Novotný $\frac{1}{2}$, <http://tiny.cc/Novotny>) is highly diverse and international (16 nationalities from 4 different continents).

The application is by e-mail (to pavel.matos@entu.cas.cz) and must be written in English. The following documents must be attached in one single PDF file: - Cover letter, stating your motivation, how your background and skills fit the project, and your potential plans for this position (max. 2 pages). - CV, including contact details of at least two referees that are familiar with your work.

The position is open until the right candidate is found. The top ranked candidates will be selected for an interview in English (by phone/skype). The start date is upon agreement, but the successful applicant is expected to start during summer (northern hemisphere) 2022.

For further information, please do not hesitate to contact me.

Dr. Pavel Matos-Maravi Biology Centre, Czech Academy of Sciences Branisovska 31, 37005, Ceske Budejovice, Czech Republic Email: pavel.matos@entu.cas.cz Web: <http://pavelmatos.wordpress.com> Matos Maravi Pavel Fortunato <pavel.matos@entu.cas.cz> Matos

Maravi Pavel Fortunato <pavel.matos@entu.cas.cz>

USussex JohnMaynardSmithStudentship

A John Maynard Smith studentship is available at the University of Sussex to study “What determines levels of adaptive genetic diversity” with Professor Adam Eyre-Walker. Crucial to the adaptive process is genetic variation that selection can act upon. Surprisingly we know relatively little about this type of genetic variation. We know that most organisms have quantitative genetic variation (QGV) for most traits, but we do not know to what extent this variation varies between species, and if it does vary, what factors influence the level of genetic variation. In this project we will quantify how much variation there is between species and explore the forces that influence the level of QGV. We will also explore a model by which adaptive evolution affects genetic diversity, proposed by John Maynard Smith, the founding father of Life Sciences at the University of Sussex. There will be opportunities to develop novel lines of enquiry that build upon these themes. The project should give us new insights into this crucial component of genetic diversity.

The project will involve bioinformatics, statistical and theoretical analysis. Ideal candidates should have a good understanding of evolutionary biology and population genetics and some experience of computer programming and statistical analysis. The project will allow the student to develop their expertise in these fields.

Informal enquiries can be made to Prof Adam Eyre-Walker (a.c.eyre-walker@sussex.ac.uk). Applications should be made through the University of Sussex's online application system by March 13th 2022; under the funding section enter the John Maynard Smith studentship.

Adam Eyre-Walker Professor of Biology School of Life Sciences University of Sussex Brighton UK

ORCID: <https://orcid.org/0000-0001-5527-8729> Google scholar: <https://scholar.google.com/citations?user=-p7SOj3IbOCIC&hl=en&oi=ao> Adam Eyre-Walker <a.c.eyre-walker@sussex.ac.uk>

UTartu Estonia HumanPopGenetics

Hello, here at the Institute of Genomics of the University of Tartu, Estonia, we are looking for promising candidates for a PhD position in Human Population Genetics, opening soon at our institute.

Please send a motivation letter and a short CV to vasili.pankratov@ut.ee

PhD position in modern population genetics (4 years, fully funded) Institute of Genomics, Estonian Biocentre, Supervisors: Dr. Vasili Pankratov, Dr. Francesco Montinaro, Prof. Luca Pagani Deadline for this call: 31.03.2022 (please get in touch if you cannot make the deadline)

Project title and description: /“Exploring the genetic correlates of social stratification in Estonia”/

The recent history of Estonia has been very complex, with several historical and geo-political events that have affected the social conformation of the country. In this context, a recent survey on a small subset of Estonians has demonstrated that the SNP-heritability for some behavioral traits such as occupational status and Educational attainment is significantly different between individuals that lived most of their early stage of their

life in ??Pre- and Post Soviet times. Another, deeper layer of variance is represented by uneven contribution of ancient populations to the various Estonian counties. The impact of ancient genetics to the phenotypic landscape of modern Europeans has been recently investigated in Estonian biobank and will constitute essential background information, which will also be feedbacked to the Biobank participants ??during the course of this project. Building from this evidence and leveraging the available genetic data for more than 200,000 samples in the EGCUT biobank, the PhD candidate will therefore explore and evaluate the existence of genetic variation correlated with geography in Estonia, taking into consideration multiple phenotypes, such as bmi, height, educational attainment and occupational status in light of recent migratory patterns and ancient population layering.

Required qualifications MSc in Bioinformatics, Biostatistics, Molecular Biology, Medical Genetics or related subjects.

Required skills Advanced programming skills in at least one of the following languages are mandatory: R, Perl, Python, C++;

Required language skills English

*Starting on * 01.09.2022

*Workload * 1,0

Net scholarship after all taxes (incl. coverage of medical insurance and pension): up to 15 600 EUR/year.

Vasili <vasili.pankratov@ut.ee>

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BinghamtonU EvolutionaryEcol

Lecturer in Ecology

About Binghamton University:

Binghamton University is a world-class institution that unites more than 130 broadly interdisciplinary educational programs with some of the most vibrant research in the nation. Our unique character - shaped by outstanding academics, facilities and community life - promotes extraordinary student success.

Binghamton merges rigorous academics, distinguished faculty and state-of-the-art facilities to engage and challenge its 18,000 students. The high-achieving Binghamton student body also represents a great diversity of life experiences, from first-generation college-goers to international students. Beyond their talent, these classmates share a desire to shape the future through technology, insight, intellectual exploration and community service.

Job Description:

The Department of Biological Sciences at Binghamton University (<http://www.binghamton.edu/biology/>) invites applications for a Lecturer with expertise in population, community, evolutionary, or ecosystem ecology. Successful applicants are expected to contribute to teaching ecology-related courses including the instruction of a large-enrollment Ecology course (Biol 355).

The department is committed to equity and inclusion and is actively working to increase diversity amongst its faculty. Members of groups historically underrepresented in the field and those from non-traditional backgrounds are strongly encouraged to apply. Additionally, evidence of a commitment to advancing equity and inclusion through research, teaching, and/or service will be valued.

Initial appointment is for one year, beginning August 22, 2022, with the possibility of renewal.

Requirements:

Ph.D. required, ABD status considered. Prior experience in teaching Ecology and related courses. Preference given to candidates with demonstrated experience in teaching large enrollment courses, interest and ability in the use of alternative and innovative instructional methods, and familiarity with the use of technology in the classroom.

Additional Information:

The State University of New York is an Equal Opportunity/Affirmative Action Employer. It is the policy of Binghamton University to provide for and promote equal opportunity employment, compensation, and other terms and conditions of employment without discrimination on the basis of age, race, color, religion, disability, national origin, gender identity or expression, sexual orientation, veteran or military service member status, marital status, domestic violence victim status, genetic predisposition or carrier status, or arrest and/or criminal conviction record unless based upon a bona fide occupational qualification or other exception.

As required by title IX and its implementing regulations, Binghamton University does not discriminate on the basis of sex in the educational programs and activities which it operates. This requirement extends to employment and admission. Inquiries about sex discrimination may be directed to the University Title IX Coordinator or directly to the Office of Civil Rights (OCR). Contact information for the Title IX Coordinator and OCR, as well as the University's complete Non-Discrimination Notice may be found here.

Pursuant to Executive Order 161, no State entity, as defined by the Executive Order, is permitted to ask, or mandate, in any form, that an applicant for employment provide his or her current compensation, or any prior compensation history, until such time as the applicant is extended a conditional offer of employment with compensation. If such information has been requested from you before such time, please contact the Governor's Office of Employee Relations at (518) 474-6988 or via email atinfo@goer.ny.gov.

Binghamton University is a tobacco-free campus effective August 1, 2017.

Applicants should submit a cover letter, curriculum vitae, statement of teaching experience and philosophy, and the names and contact information of 3 individuals to provide letters of recommendation to www.interviewexchange.com. Applications will be reviewed until the position is filled.

Jamie Silverio <jsilveri@binghamton.edu>

BotanyMuseumNewZealand CollectionManager

Job vacancy: Kaitiaki Taonga Collection Manager, Botany Museum of New Zealand Te Papa Tongarewa, Wellington

The Natural History Team currently has a vacancy for a permanent full time Kaitiaki Taonga Collection Manager to work with the Botany Collections.

We are looking for applications from candidates who have: - A tertiary qualification in a relevant subject related to biological sciences - Knowledge of plant systematics is desirable - Previous experience in a collection management or registration role, with a sound working knowledge of collection management practices - Demonstrated ability to work effectively both independently and as part of a team - Ability to spend significant time working in the collections and remain motivated when undertaking very repetitive tasks - Extensive experience working with a Collection Information Systems and good working knowledge of MS Office Suite and database applications - Knowledge and experience in meeting applicable regulatory and compliance requirements including attaining permits, licenses and certifications e.g. CITES, HSNO and PC1 containment facilities - Demonstrated ability to build and maintain robust working relationships with internal colleagues and external stakeholders - Proven time management capability and can deliver within tight timeframes.

The starting salary range will be between \$66,761 to \$83,451. Offers will be made within the range to reflect the skills and experience offered by the candidate and those required of the role, and internal relativities with other employees.

To apply for this opportunity please send an expression of interest setting out your skills and relevant experience in a cover letter and Curriculum vitae to* recruit-

ment@tepapa.govt.nz* by C.O.B *Thursday March 10 2022.*

salvador.rodriigo.b@gmail.com

ColoradoStateU Manager ConservationGenomics

Lab and Collections Manager Position: Conservation Genomics, Colorado State University

The Funk Lab at Colorado State University is seeking a highly organized, enthusiastic, and motivated scientist to fill a Conservation Genomics Lab and Collections Manager position. The successful candidate will work closely with our multi-disciplinary team of post-docs, graduate students, other research staff, and faculty within the Biology Department at Colorado State. For more information on our research, please see the Funk Lab website (<http://funklab.colostate.edu/>).

Duties will include, but are not limited to: - Preparing DNA sequencing libraries (whole genome, myBaits targeted capture, RADseq, etc.). - DNA extractions from a variety of tissue types. - Managing and training undergraduate research assistant and work study students. - Ordering supplies and equipment maintenance. - Curating a tissue sample collection. - Renewing permits and submitting annual reports to appropriate agencies. - Maintaining collaborator relations, shipping sampling supplies, and receiving samples. - Maintaining compliance with environmental and safety procedures. - Managing written protocols, Standard Operating Procedures, etc. for lab and field work.

Minimum Qualifications Include: - Bachelors degree in biology, genetics, ecology, fish and wildlife biology, or a related field. - Strong organizational skills and attention to detail. - Ability to work as part of a team as well as accomplish tasks independently. - Excellent communication skills and a willingness to follow instructions and direct others when needed. - Excellent and thorough laboratory notebook maintenance abilities. - Experience with basic and intermediate laboratory methods, including pipetting, PCR, gel electrophoresis, and DNA extraction. - Strong desire to learn new genomic sequencing methodologies.

Also strongly desired: - Experience with the DNA library preparation protocols listed above. - Experience with database management. - Graduate degree in biology, genetics, ecology, fish and wildlife biology, or a

related field.

Start date and duration: Preferred start date is on or before May 1, 2022, but is open to negotiation. Initially, the appointment will be for a period of 12 months, with the possibility of extension dependent upon performance and the availability of research funds.

Applications: Interested applicants should send applications to Chris Funk (Chris.Funk@colostate.edu) by March 31, 2022. Please include a cover letter, CV, and contact information for 3 references saved as a single PDF file. In the cover letter please highlight your previous laboratory experience and interest in conservation genomics. Subject line should be "Funk Lab Manager Application". This will be a full-time position, with benefits and an annual salary commensurate with experience.

"Funk,Chris" <Chris.Funk@colostate.edu>

Denver Museum NatSci Assist Collections Manager

From: Andrew Doll Andrew.Doll@dmns.org Sent: March 21, 2022 4:10 PM To: Golding, Brian golding@mcmaster.ca Subject: DMNS job posting

The Denver Museum of Nature & Science seeks an Assistant Collections Manager in the Integrative Collections Branch to support the Invertebrate Zoology Collections. This position supports the collections and research activities of the Zoology Department as it curates a taxonomically diverse, scientifically valuable, and well cared for collection of specimens. The Invertebrate Zoology Collections currently hold approximately 1.19M specimens and specimen lots in the areas of Arachnology, Entomology, and Marine Invertebrates.

The Zoology Department seeks to document and preserve the biodiversity of the Rocky Mountain region and beyond for scientific research and education while adhering to current best-practice guidelines. This position facilitates efforts to preserve and protect the collections on a long-term basis, to increase access and grow scientific output, to manage and expand collections, and to help inspire diverse communities' understanding of, and involvement in, biodiversity and the natural world. DMNS is especially interested in candidates whose background and experience have prepared them to contribute to our commitments to co-create a museum-wide DEAI (Diversity, Equity, Accessibility, Inclusion) strategy, and

to find ways for diverse communities to engage with the Museum in meaningful ways.

This position reports to the Zoology Collections Manager. This is a term position that ends on 12/31/2027.

Essential duties:

§Assists with professional collections management for all collections.

§Assists with the accession, deaccession, documentation, registration, organization, and preparation of collections as assigned.

§Implements training, monitoring, and daily supervision of interns and volunteers as assigned.

§Responds to internal and external queries and requests, and facilitates loans and use of collections.

§Assists in maintaining collections metadata, including digital records and associated multimedia files.

§Implements and ensures adherence to all safety protocols in collections.

§Supports and delivers internal and external outreach programs as appropriate or required.

§Other duties as assigned. Minimum qualifications/Requirements:

§Bachelor's degree in Zoology or related field required.

§1 year museum collections management experience required.

§1 year relational database experience required.

§Occasional local and out of state travel required.

§Evening and weekend shifts as needed required.

§Ability to handle biological material and museum specimens in adherence with safety and departmental protocols required.

§The Museum loves science. As a science institution, the Museum believes in the science behind vaccines. Effective September 1, 2021, all persons offered a position will be required to provide valid proof of full vaccination against COVID-19 prior to starting employment.

Physical Requirements of job:

§Ability to sit and/or stand for up to 8 hours at a time.

§Moderate physical activity required by handling objects up to 50 pounds occasionally, up to 30 pounds frequently, and up to 100 pounds (with assistance) rarely.

Ideal candidate will have:

§Master's degree in Zoology or related field

§Experience working with zoological museum specimens;

particularly invertebrate animals

§Understanding and experience with taxonomic concepts and phylogenetic organization

§Experience moving and reorganizing collections

§Supervisory experience with interns and volunteers

§Advanced collections management database experience, including data imports and large dataset proofing and cleanup

§Experience managing multiple projects at once, including the ability to create and implement both short-term and long-term plans

§Experience engaging diverse audiences in science or through science communication

§Proven record of being a highly motivated, proactive team player

§Exceptional organizational skills

Core values:

§We love science.

§We are curious, creative and playful.

§We cultivate relationships with each other, diverse communities, the environment and for our future.

§We think critically and act with empathy. Perks and Benefits of working at the Denver Museum of Nature & Science include:

A comprehensive benefits package including medical, dental, and vision coverage. 100% paid life insurance and long-term disability insurance. Paid time-off for vacation, sickness and holidays. 403(b) Retirement Plan with immediate eligibility to contribute and, after one year of employment, an employer contribution and match. An RTD Eco pass and a free Family+ membership to the Denver Museum of Nature & Science.

The full range of perks and benefits can be found [HERE](https://www.dmns.org/about/careers/-employee-benefits/). (<https://www.dmns.org/about/careers/-employee-benefits/>)

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EarlhamInst Norwich Bioinformatics

Bioinformatician

Applications are invited for a Bioinformatician to join the Laboratory of Dr Falk Hildebrand at the Earlham Institute based in Norwich, UK.

The Hildebrand group is researching bacteria and microeukaryotes through metagenomics, having three research themes: the diversity, community interactions, and evolution of microbes. The group develops and maintains various metagenomics software tools, for further information see www.falk.science. Background:

Can we use genome resolved metagenomics to understand the evolution and ecology of microbial communities?

Characterizing the flexible bacterial pangenome and species interactions is central to understanding microbial ecosystems (doi:10.1038/s41586-018-0386-6, 10.1136/gutjnl-2018-317715). In the Hildebrand group we combine strain resolved metagenomics with reconstructions of sample specific microbial genomes, to understand persistence, dispersal and evolution of microbes in the gut and other ecosystems (doi:10.1016/j.chom.2021.05.008), with an interest in interkingdom interactions (doi: 10.1111/1462-2920.15314). The role of community interactions and short-term evolution in maintaining resilient ecosystems is so far unexplored, and requires novel bioinformatic algorithms combined with emerging sequencing-based technologies.

The role:

This post requires an experienced bioinformatician with an interest to study reconstructed microbial genomes in metagenomes (bacterial, archaeal, fungal). The postholder will be involved in conceptualizing & implementing bioinformatic pipelines to analyse large time-series metagenomes (human gut, soil, .), based on data from 2nd and 3rd gen sequencing platforms, such as illumina, PacBio, ONT, Hi-C & single cell sequencing data. The analysis will be published in research papers that the candidate should be leading. The ideal candidate:

To fulfil this role, we are looking for a research-focused Bioinformatician, with experience in either metagenomics, population genetics, GWAS, analysing genomes (eukaryotic or prokaryotic), assembly/binning algorithms, single cell sequencing or genomics technologies.

The candidate will work independently, with other group members, and with national and international collaborators to generate and analyse data.

Previous experience in publishing scientific work, developing and optimising bioinformatic tools or numerical ecology is essential. Training will be available in all aspects of the work, although it is expected that applicants will have a strong background in bioinformatics and genetics.

Furthermore, good organisational skills and the ability to communicate and work productively within a multidisciplinary team will be crucial. An interest in community microbiology (such as gut microbiome) will be advantageous, but prior experience or knowledge of metagenomics is not a requirement.

Additional information:

Salary on appointment will be within the range 32,578 to 39,938 per annum depending on qualifications and experience. This is a full-time post for a contract of 3 years.

Interview will be held on 25th April 2022.

For further information and details of how to apply, please visit our website <http://jobs.earlham.ac.uk/> or contact the Human Resources team on 01603 450462 or nbi.recruitment@nbi.ac.uk quoting reference 1004217.

As a Disability Confident employer, we guarantee to offer an interview to all disabled applicants who meet the essential criteria for this vacancy.

The closing date for applications will be 14th April 2022.

Kind regards,

Georgina Roberts HR Advisor (Recruitment) Human Resources

NBI Partnership, Norwich Research Park, Colney, Norwich, NR4 7UH

I am sometimes working remotely but can be contacted as normal by: Email: georgina.roberts@nbi.ac.uk

Tel: 01603 450462 or Ext 2462

The NBI Partnership Ltd provides non-scientific services to the John Innes Centre, The Sainsbury Laboratory, the Earlham Institute and the Quadram Institute Bioscience

“Georgina Roberts (NBI)”
<Georgina.Roberts@nbi.ac.uk>

EcoHealthAlliance New York WildlifeBiosurveillance

Research Scientist - Phylogenetic and Wildlife Biosurveillance Data Analysis at EcoHealth Alliance?

<https://www.ecohealthalliance.org/career/-phylogenetic-research-scientist> Kevin Olival
<olival@ecohealthalliance.org>

EcoHealthAlliance NYC PathogenBioinformatics

EcoHealth Alliance seeks a Bioinformatician with significant experience in the analysis and curation of high-throughput sequencing data, as well as skills in software development. We are looking for a scientist with excellent computational and analytical skills to assist in the analysis of metagenomic and genomic sequencing data, as well as develop and benchmark custom in-house analytical pipelines. We are seeking someone with excellent computational and analytical skills, strong communication skills, and the ability to work with a diverse, multi-disciplinary team that includes scientists from across the globe. This is a key position at a rapidly growing NGO with diverse, federally funded scientific research programs around the world focused on zoonotic disease emergence. The Bioinformatician will work to accelerate the use of high-throughput sequencing and metagenomics as a tool to understand the emergence of zoonotic diseases across multiple projects, while actively and collaboratively working to integrate genetic and genomic data into ecological and evolutionary models of disease emergence and spread. The Bioinformatician will be expected to participate and interact with scientists within the group, publish their work in peer-reviewed journals, and share their code openly. The successful applicant will be a key contributor to our 'think-tank' on emerging infectious diseases and will help determine the direction of our research moving forward. Above all, a passion for understanding the process of zoonotic disease emergence is key. The position is based at EcoHealth Alliance in New York City and may involve some international travel.

For Information on Responsibilities, Qualifications, and How to Apply please see:

<https://www.ecohealthalliance.org/career/-bioinformatician> Contact me on Twitter: @CadhlaFirth

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*Cadhla Firth, PhD *she/her *Senior Research Scientist and Program Coordinator*

EcoHealth Alliance 520 Eighth Avenue, Ste. 1200 New York, NY 10018

+61.447.361.669 (mobile) www.ecohealthalliance.org

*EcoHealth Alliance develops science-based solutions to prevent pandemics and promote conservation**.*

firth@ecohealthalliance.org

EmoryU 3 EvolutionaryBiology

The Department of Biology at Emory University invites applications for three lecture track faculty positions. We seek candidates with a Ph.D. in the biological sciences with a strong commitment to pedagogy and a specific interest in teaching and advising undergraduates from a diversity of backgrounds. Applicants having prior experience with evidence-based teaching practices are encouraged to apply; postdoctoral experience is preferred. Faculty appointments will be made at the lecture track rank of Lecturer or Senior Lecturer commensurate with current academic standing and achievement (see description of ranks and terms at <http://college.emory.edu/faculty/documents/lecture-track/ltf-policy-appointment-review.pdf>).

Established over 20 years ago, Emory College has one of the strongest and longest-running teaching tracks in the country with over 100 lecture track faculty. Successful candidates will demonstrate experience and ability to teach introductory biology and/or upper level lecture and lab courses including, but not limited to, ecology and evolution, comparative vertebrate anatomy, physiology, biochemistry, or genetics. In addition to teaching, commonly four courses per year, successful applicants will be expected to contribute to the academic life and governance of the Department, College of Arts and Sciences, and the University. The appointee will join a cohesive group of tenure track (27) and lecture track (11) faculty working collaboratively in the teaching, research, and service missions of Emory University. Department of Biology faculty are committed to creating

a respectful community of educators and scholars and seek colleagues who are eager to nurture and support growth of students, staff, and faculty, including BIPOC, LGBTQ+, first generation and international community members, as well as community members with disabilities, among others (<http://www.biology.emory.edu/-biology-at-emory>). Emory is a top 20 research university located in Atlanta, a culturally diverse city of historical significance in the modern civil rights movement. Atlanta (<https://discoveratlanta.com/>) offers a variety of cultural, social, and recreational opportunities with a mild climate. Application procedure: Application materials are submitted via Interfolio using the following linkapply.interfolio.com/103517 and include the following materials: 1) Cover letter 2) Curriculum vitae (CV) 3) A statement of teaching experience, interests and philosophy. 4) A statement detailing your experience and philosophy regarding teaching and mentoring students from diverse backgrounds and/or contributions to social justice, equity, diversity and inclusion. 5) Any additional information related to professional development, pedagogical scholarship or evidence of teaching effectiveness that speaks to your commitment to teaching and mentoring of undergraduates. Items 3-5 should not exceed six pages combined. Review of applications will start April 1st; to ensure full consideration, all materials should be received by May 1st. For technical assistance with Interfolio, contact help@interfolio.com or call (877) 977-8807. For questions about the position, please contact the chair of the search committee Patrick Cafferty, PhD at pcaffer@emory.edu Emory University is an equal employment opportunity and affirmative action employer. Women, minorities, people with disabilities, and veterans are strongly encouraged to apply.

patrick.w.cafferty@emory.edu

patrick.w.cafferty@emory.edu

HarvardU LabTech Adaptation

The Hopkins lab at Harvard University is seeking a full-time research technician.

Please apply with your CV and cover letter here:

https://sjobs.brassring.com/TGnewUI/Search/Home/-Home?partnerid=3D25240&siteid=5341#jobDetails=-1944746_5341 Our research focuses on understanding the evolutionary forces driving adaptation and speciation. We use a variety of population genetic, and molecular evolution techniques to study selection, gene flow, and

adaptive mutations in plants. Much of our work focuses on characterizing reproductive isolation between species and mate choice within species. This position will involve assisting researchers with a variety of laboratory tasks including:

- Extraction of DNA and RNA
- Next-generation and third-generation sequencing library preparation
- PCR and gel electrophoresis
- Cloning, subcloning, and cell culturing
- Preparation of stocks, buffers, and media with sterile technique
- Organizing and summarizing data, in collaboration with team
- Working collaboratively with senior scientists on design, planning, and optimization of experiments

We are looking for someone excited to learn laboratory skills while studying evolutionary biology, plant biology, speciation, and population genetics. We would like to find someone organized, self-motivated, detail oriented, and with strong communication skills. Ideally, candidates will have some research experience or course work in evolution, genetics, or plant biology.

The Hopkins lab (<http://hopkins-lab.org/>) is part of the Organismic and Evolutionary Biology department at Harvard University, which is diverse and vibrant with a broad range of research and teaching interest. Our lab is located at the Arnold Arboretum research building in Boston.

In the Hopkins lab we believe the strength and excellence of our community stems from our diversity of identities, experiences, and perspectives. We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, gender identity, sexual orientation, pregnancy and pregnancy-related conditions, or any other characteristic protected by law.

Please contact Robin Hopkins (rhopkins@fas.harvard.edu with questions

rhopkins@fas.harvard.edu rhopkins@fas.harvard.edu

ISEA PolishAcademySciences Bioinformatics

The Department of Molecular Biodiversity at Institute of Systematics and Evolution of Animals Polish Academy of Sciences invites applications for adjunct (assistant professor) position. We seek candidates with a PhD in bioinformatics, biotechnology, biology or related fields with experience in the study of organisms at the intra- and interspecies levels using next-generation sequencing, and particularly in bioinformatics analyses and visualization of data generated using next-generation sequencing.

The Department of Molecular Biodiversity (<http://www.isez.pan.krakow.pl/en/departament-experimental-zoology.html>) conducts research focusing on phylogeography, phylogenetics, molecular ecology and conservation genetics of various groups of organisms (mostly insects, protists and birds).

Requirements:

- PhD in bioinformatics, biotechnology, biology or related fields;
- ability to work in environments of various operating systems (incl. LINUX);
- knowledge of Python and / or R programming languages, incl. selected libraries for the analysis of biological data;
- experience in preparing genomic libraries;
- the experience in bioinformatics analyses and visualization of data generated using next-generation sequencing;
- quality control,
- demultiplexing,
- identification of single nucleotide polymorphisms and their use in phylogenetic and population analyses;
- the experience in the study of organisms at the intra- and interspecies levels using next-generation sequencing and Sanger sequencing;
- scientific achievements documented by publications in renowned international journals, indexed in the Journal Citation Reports;
- documented presentation of the results (oral) at international conferences;

- documented international cooperation, including internships;
- documented participation in research projects;
- scientific independence and readiness to work in a team;
- initiative to improve professional qualifications;
- precise direction of further scientific development;
- fluency in at least two world languages (incl. English);

Duties:

- implementation of next-generation sequencing techniques and genomic bioinformatics analyses as part of research conducted at the Department of Molecular Biodiversity;
- supporting the employees of the Department in the field of bioinformatics, including:
 - planning experiments and analysing data from high-throughput research methods;
 - organization and conducting of training courses on selected bioinformatics analyses for the employees of Institute;
 - conducting phylogenetic, population-genetic and evolutionary research in cooperation with employees of the Department;
- activity in obtaining funds for research;
- archiving of scientific documentation;
- performing bioinformatic and statistical analyzes;
- publishing research results in scientific articles in renowned international journals;
- participation in organizational and popularizing activities;
- participation in the training of students, apprentices and volunteers.

Candidates are asked to provide the following documents:

1. Application, curriculum vitae, copies of diplomas and other certificates confirming qualifications.
2. A summary of research interests and educational experience, as well as contemporary scientific accomplishments.
3. List of scientific accomplishments (books, articles, oral speeches, involvement in projects). The list should highlight accomplishments obtained after PhD.
4. Contact to at least two independent researchers who can provide references.

The application documents (i.e. the Application and

CV), need to be attached with the following clause: 'I consent to the processing of my personal data provided in the application documents for the purposes of the recruitment process conducted by the Institute of Systematics and Evolution of Animals of the Polish Academy of Sciences, for the position indicated in the announcement. I have been informed that providing the consent is voluntary and that I have the right to withdraw my consent at any time. I have also been informed that the withdrawal of my consent will not affect the legality of the processing that was carried out on its basis prior to its withdrawal. Furthermore, I declare that I have read the information clause regarding the processing of personal data in accordance with the Regulation of the European Parliament and of the Council of 27 April 2016, included in the recruitment announcement of the Institute of Systematics and Evolution of Animals of the Polish Academy of Sciences'.

Applications that do not meet formal requirements and submitted after the deadline will not be considered.

Selected applicants may be called for an interview.

Documents should be submitted by e-mail to the secretariat of ISEA PAS: office@isez.pan.krakow.pl and to the information of dr hab. ukasz

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JohannesGutenberg UMainz PlantEvolution

The Institute of Organismic and Molecular Evolution at the Faculty of Biology, Johannes Gutenberg University Mainz, Germany invites applications for the position of Junior Professor of Plant Evolutionary Ecology beginning at the earliest date possible.

Salary grade W 1 LBesG with tenure track to W 2, Civil servant with a fixed-term contract

We are seeking an internationally renowned scientist in the field of plant biotic interactions and evolutionary ecology. The research of the applicant should focus on how interactions of plants with other organisms influence evolutionary adaptations. The successful candidate

should use molecular techniques on the organismal level to address fundamental questions in evolutionary ecology, ideally covering phenotype, underlying genotype and epigenetic processes. We particularly encourage applicants whose research comprises theoretical methods or whose empirical investigations are amendable to modelling.

Please apply your complete application documents (CV; certificates; lists of publications and teaching activities; funding record; current research and future research plans; teaching concept) as well as the filled form available at no later than March 27th 2022 under the following Link:

<https://berufungsportal.uni-mainz.de/-ausschreibungen/4?lang=en> For questions and further information, please contact the chairperson of the search committee: Prof. Dr. Susanne Foitzik: foitzik@uni-mainz.de

Prof. Dr. Susanne Foitzik Institute of Organismic and Molecular Evolution Johannes Gutenberg University Mainz Biozentrum Hanns Dieter Hi₂sch Weg 15 D-55128 Mainz Germany Tel: +49 (0) 6131 39 27 840 Fax: +49 (0)6131 39 27 850 Email: foitzik@uni-mainz.de

“Foitzik, Susanne” <foitzik@uni-mainz.de>

JohannesGutenbergU PlantEvolutionaryEcology

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Prof. Dr. Susanne Foitzik Institute of Organismic and Molecular Evolution Johannes Gutenberg University Mainz Biozentrum Hanns Dieter Hi₂sch Weg 15 D-55128 Mainz Germany Tel: +49 (0) 6131 39 27 840 Fax: +49 (0)6131 39 27 850 Email: foitzik@uni-mainz.de

“Foitzik, Susanne” <foitzik@uni-mainz.de> “Foitzik, Susanne” <foitzik@uni-mainz.de>

LingnanU HongKong ConservationBiol

<https://lingnan.csod.com/ux/ats/careersite/4/home-requisition/454?c=lingnan> Assistant Professor / Research Assistant Professor (3 vacancies) Environmental Science Post Ref.: 22/104

The University is seeking to hire 2 tenure-track Assistant Professors and 1 full-time Research Assistant Professor in the area of Environmental Science. The ideal candidates would enhance and build on existing strengths (Conservation Biology, Aquatic and Terrestrial Ecology), while diversifying the unit (e.g. new research and teaching expertise, taxonomic coverage, and/or research techniques)

The appointee will join the Science Unit (<http://www.ln.edu.hk/scienceunit>) in the School of Interdisciplinary Studies and will be expected to develop an externally-funded research program, publish high-impact research, teach courses at the undergraduate and postgraduate levels in a liberal arts setting, and participate in academic and professional activities of the Unit, School, and University.

General Requirements Applicants should have (i) a PhD/Post-doctoral experience in a related field; (ii) a strong publication record in peer-reviewed, international

journals; (iii) a good track record in competitive grant applications; (iv) the ability to contribute to the Science Unit's teaching, outreach, and knowledge-transfer efforts; and (v) the ability to contribute to the University's goal of producing socially significant research that informs sustainable development.

Appointment The conditions of appointment will be competitive. The rank and remuneration will be commensurate with qualifications and experience. Fringe benefits include annual leave, medical and dental benefits, mandatory provident fund, gratuity, and incoming passage and baggage allowance for the eligible appointee.

For the post of Assistant Professor, appointment will normally be made on an initial contract of three years; subject to review and mutual agreement, it may normally lead to longer-term appointment with possibility of consideration for substantiation.

jonfong@ln.edu.hk

MIT Massachusetts LabTech PlantGenetics

The Des Marais Lab in the Department of Civil and Environmental Engineering at MIT is looking to hire a Research Technician to assist with studies on the mechanisms of plant-environment interactions using molecular and quantitative genetics. Current areas of interest include life history evolution, interactions between carbon assimilation and growth during drought stress, and genotype by environment interaction.

The research technician will assist with plant growth experiments, basic molecular biology lab work including DNA and RNA extractions and metabolic assays; will handle general lab tasks such as preparing buffers and ordering; and perform other related duties as requested. There will be opportunities to learn photosynthetic analysis using a LiCor gas exchange system, plant transgenics, cloning, and genomic analysis.

The Des Marais Lab < <https://desmaraislab.scripts.mit.edu/lab/home/> > is located in the Parsons Laboratory for Environmental Science and Engineering. The Parsons Lab houses research groups in life sciences, environmental chemistry, hydrology, and fluid mechanics. The group maintains close collaborations with researchers in MIT's Biology Department, Harvard's Organismic and Evolutionary Biology Department, the Harvard Forest, and the

Arnold Arboretum in nearby Jamaica Plain, MA.

REQUIRED: a high school diploma or its equivalent; excellent organizational, analytical, and oral and written communication skills; self-motivation; ability to multitask and work collaboratively with others. **PREFERRED:** bench research experience; B.S. in biology or related science field; and experience with plant growth, molecular biological techniques, and basic chemistry. Job #20996-3 Some night and weekend work may be required.

This is a one-year appointment, renewable based on performance and the research needs of the lab.

Please apply online https://careers.peopleclick.com/-careerscp/client_mit/external/jobDetails/-jobDetail.html?jobPostId=23603&localeCode=en-us

David L. Des Marais Walter Henry Gale (1929)
Career Development Professor Civil and Environmental Engineering MIT <https://desmaraislab.scripts.mit.edu/-lab/home/> Dave Des Marais <dldesmar@mit.edu>

MortonArboretum Illinois ResAssist TreeConservation

Greetings,

We are seeking a Tree Conservation Research Assistant II at The Morton Arboretum in Lisle, IL. Does this meet the definition to be posted on EvolDir? Details are listed below.

The Morton Arboretum is a world-renowned nonprofit botanic garden dedicated to the study, growth, and conservation of trees both in the Chicago region and worldwide. We are seeking a highly motivated individual to join the Global Tree Conservation Program (GTCP) in our effort to prevent extinction of threatened trees. The Tree Conservation Research Assistant level II (RA II) will support the running of key elements of the GTCP, with a focus on developing and applying qualitative and quantitative methods for prioritizing species where ex situ and in situ conservation actions are most urgently needed, leading conservation-planning and capacity building activities with stakeholders, and contributing to conservation-focused field research. The Tree Conservation RA II will be supervised by the director of GTCP but will also have the opportunity to collaborate with partners around the world, including across the U.S. and in forest biodiversity hotspots, such as Mesoamerica and SE Asia.

Position Summary: Work closely with the Director of Global Tree Conservation to support the running of key elements of the Global Tree Conservation Program (GTCP) at The Morton Arboretum with focus on research and conservation-planning activities with threatened tree species.

Essential Functions:

Lead, coordinate, and write funding proposals to support GTCP projects.

Conduct species prioritization research, which includes gathering and analyzing demographic, ecological and threat data on priority tree species, preparing maps using spatial analysis software, and preparing and updating IUCN Red List threat assessments, conservation gap analyses, IUCN Green List Status assessments, and species action plans.

Perform assigned research activities, including international field work in biodiversity hotspots. Record and analyze results in order to provide clear, well-documented data for research projects.

Compile and summarize results and assist in preparing and editing reports, manuscripts and articles for publication.

Present and communicate findings to internal and external professional and academic peers; and organize and contribute to conservation activities, such as community workshops and stakeholder meetings, both in the U.S. and in priority countries for the GTCP.

Provide training and supervision to temporary employees, students, interns, and/or volunteers, including international collaborators and fellows.

Coordinate with collaborators, manage communications and project updates, and promote the work of the Arboretum's conservation initiatives, including global oaks and US trees.

Identify stakeholders, potential partners, resources, and sites for tree conservation projects that fill identified gaps.

Other duties as assigned.

Qualifications: Bachelor's degree required, Master's degree preferred in environmental science, conservation, environmental policy, botany, biology, forestry, or a related science. 3+ years of related research or work experience required with a demonstrated knowledge of research implementation. Ability to conduct statistical and GIS/spatial analyses, ideally in R. Excellent organizational, communication, and independent working skills required. Ability to conduct library research and online data mining required. Proficiency with Microsoft

Office and Google applications beneficial. Basic botanical knowledge is beneficial. Knowledge of Spanish or another secondary language beneficial. Knowledge of the IUCN Red List and international conservation policies/frameworks desirable. Must possess a valid driver's license, which is subject to insurability and an annual Motor Vehicle Record (MVR) report.

Success Factors: Self-motivated learner and ability to solve problems and manage projects with minimal supervision. Familiar with academic and scientific literature and research databases. Ability to read and understand scientific literature and peer-reviewed articles. Ability to use database, spreadsheet, and statistical/graphics programs, and proficiency with internet research. Strong written and oral communication skills. Understanding of national and international conservation policies. Willingness to conduct research or conservation activities in Mesoamerica or Southeast Asia and the ability to work independently in remote settings with culturally-diverse partners and local stakeholders. Interest in botanic gardens and management of living plant collections. Ability to embrace and operate in line with our employee core values to be inclusive, take ownership, work together, keep learning, and make the Arboretum exceptional.

Physical Demands and Work Environment: The physical demands and work environment characteristics described here are representative of those

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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>

NMBU Norway Bioinformatics Senior Engineer

Dear All,

Hi, I hope all is well. Faculty of Biosciences at the Norwegian University of Life Sciences (NMBU) invites applications for a permanent position as senior engineer within Computer Science and Bioinformatics. The main task of this position is to support scientific computing at Faculty of Biosciences.

About the position Faculty of Biosciences at the Norwegian University of Life Sciences (NMBU) invites applications for a permanent position as senior engineer

within Computer Science and Bioinformatics. The main task of this position is to support scientific computing at Faculty of Biosciences.

The successful candidate will join the multidisciplinary Genome Biology research group, which possess expertise in genetics, evolutionary and comparative genomics, bioinformatics and systems biology. This group includes 2 full-time professors, 2 associate professors, 22 post-docs/researchers, 13 PhD students and 10 research technicians, teaming up within Centre for Integrative Genetics (CIGENE; www.cigene.no). CIGENE has a strong aqua- and agri- research profile, with key strengths in application of 'omics' data to understand the genetic architecture of complex traits.

The group has a track-record in high-impact publishing and development of genomic resources for agricultural and marine species. The CIGENE lab includes state-of-the-art instrumentation for genotyping and sequencing and produces large amounts of data for subsequent analysis.

The NMBU IT department is responsible for providing the university's High-Performance Computing (HPC) infrastructure - Orion. The successful candidate is expected to work closely with the relevant people internally in the IT department and assist in planning, managing, monitoring, documenting, and maintaining the system's hardware and software.

For further information, please contact group leader prof. Sigbjørn Lien (sigbjorn.lien@nmbu.no), phone +47 91353715. <https://www.jobbnorge.no/en/available-jobs/job/222724/senior-engineer-within-computer-science-bioinformatics> Best,

Marie SAITOU, Ph.D. Tenure-Track Principal Investigator, Centre of Integrative Genetics (CIGENE), Faculty of Biosciences, Norwegian University of Life Sciences <https://sites.google.com/view/saitou-lab> Marie Saito <marie.saitou@nmbu.no>

tem dynamics in the past, present, and future using environmental DNA (eDNA) techniques. A key goal of ArcEcoGen is to build up a diverse, rigorous, and internationally leading research group in ecosystem genomics. The Museum's large scientific collections used for research and for generating DNA reference libraries includes ~40 000 specimens of fungi, 23 000 lichens, 24 000 bryophytes, and 3500 algae. Our collections also include sediment samples from arctic and alpine lakes as well as DNA extracts from sediments and organisms. We also have fully equipped laboratories and infrastructure for recovery and analyses of modern, ancient, and eDNA, as well as field equipment for sediment coring. We are currently recruiting PhDs, Post Docs, and associate professors as a part of a recent Aurora Centre funding award.

The position is expected to develop a research program within eDNA of cryptogams with a focus on northern ecosystems. Further, the position holder will be curator of our cryptogam collection and participate in outreach, administration, and some teaching. It is expected that the position holder will participate in research group collaboration and professional networks nationally and internationally and will obtain external funding from national and international funding agencies (e.g., RCN/EU).

You will conduct research and will be in charge of maintaining and developing the Museum's scientific collection of cryptogams. <https://www.jobbnorge.no/en/available-jobs/job/221510/associate-professor-in-cryptogam-studies> Prof. Inger Greve Alsos The Arctic University Museum of Norway UiT - The Arctic University of Norway NO-9037 Tromsø, $\frac{1}{2}$ Norway Telephone: +47 77 62 07 96 Telefax: +47 77 64 51 05 Email: inger.g.alsos@uit.no <http://en.uit.no/ansatte/inger.g.alsos> <http://ecogen.no/> <https://www.iceagent.no/> <http://svalbardflora.no/> <https://orcid.org/0000-0002-8610-1085> Inger Greve Alsos <inger.g.alsos@uit.no> Inger Greve Alsos <inger.g.alsos@uit.no>

Norway Cryptogam Evolution

At The Arctic University Museum of Norway (UM) a position as Associate Professor is available within cryptogam (bryophytes, lichens, fungi) science. The position is affiliated to the newly established Norwegian Centre for Arctic Ecosystem Genomics (ArcEcoGen).

ArcEcoGen research focus the research on the combined effect of humans, climate, and biota on northern ecosys-

NSF USA Program Director in Systematics Biodiversity

Replacement post text:

The National Science Foundation (NSF) is searching for a temporary program director (rotator) in the Systematics and Biodiversity Science cluster in the Division

of Environmental Biology, with a flexible start date. Rotators typically join NSF on a short-term basis (1-3 years) and contribute to making proposal funding recommendations, influencing NSF program trajectories, interfacing with the scientific community, and relaying trends about research community directions to NSF programs. Rotators maintain ties to their current institution during their rotation, returning to their position with new insights about the federal funding landscape after their rotation.

If you or someone you know might be interested in serving in this important role at NSF, we would like to hear from you. You can read the job posting and apply at <https://beta.nsf.gov/careers/openings/bio/bio-18-001>. Qualified candidates from the full range of expertise covered by the Systematics & Biodiversity Science Program are encouraged to apply. The Rotator Program strengthens NSF's ties with the research community and provides the talent and resources that are critical to meeting NSF's mission. Many potential candidates may have ongoing NSF awards. NSF has mechanisms in place that allow active labs to continue functioning while you are serving the scientific community through employment with NSF.

Rotators make essential contributions at NSF, and we are looking to continue a strong tradition of having outstanding scientists fill this role and serve on behalf of the community. Serving as a rotator at NSF can expand your scientific world view and enable you to engage in a leadership position within the science community in a whole new way.

More information about becoming a temporary program director can be found here: <https://beta.nsf.gov/careers/-rotator-programs>. Please forward this announcement to anyone you think might be interested in this opportunity. The application is straightforward. Review of applications will start June 1, 2022 and continue until the position is filled.

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

Christopher Balakrishnan, cbalakri@nsf.gov

Shannon Fehlberg, sfehlber@nsf.gov

Maureen Kearney, mkearney@nsf.gov

Dan Thornhill, dthornhi@nsf.gov

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

Are you seeking more DEB info? Check out the blog! Are you interested in being a reviewer? Fill out the survey!

“Balakrishnan, Christopher” <cbalakri@nsf.gov>

OxfordCollegeEmoryU 2 VisitingAssistProfessor

<https://apply.interfolio.com/103070> Visiting Assistant Professor - Biology

Located 36 miles east of Atlanta on Emory's original campus in Oxford, Georgia, Oxford College invites applications for two visiting assistant professor positions in Biology beginning August 2022, with possible renewal up to three years.

The successful candidate will teach two lecture courses and their accompanying laboratories each semester. These courses will be part of the two-course introductory biology sequence for majors, covering topics in cellular and molecular biology, with a focus on molecular genetics in the second course. Oxford's state-of-the-art science facility, which opened in 2016, is designed to promote student-faculty collaboration, scholarship, and innovative teaching in STEM.

Qualifications:

Required - A Ph.D. in biology or a sub-discipline, completed by May 2022

Preferred - Candidates with experience in inquiry-based teaching and student-centered learning are particularly encouraged to apply. Biology faculty use recommendations of Vision and Change and PULSE as guiding principles. Experience or training in molecular or cellular biology is a plus for both positions.

Application Instructions: Applicants are required to submit a cover letter, CV, statement of teaching philosophy, undergraduate and graduate transcripts (unofficial acceptable), and three letters of recommendation via Interfolio (insert link here). The cover letter should address the candidate's qualifications for the position as well as their interest in working at a liberal arts college with first and second year college students. Evaluation of candidates will begin March, 21, 2022, and will continue until the position is filled. Inquiries may be directed to Dr. Sarah Fankhauser (sarah.fankhauser@emory.edu).

One of Emory University's four schools partnering in undergraduate education, Oxford College provides 975 first- and second-year students of high academic profile an intensive liberal-arts program for the first two years of their Emory bachelor's degree. We are interested in

candidates with a commitment to working with a remarkably diverse student body in an inclusive learning community that values excellence in teaching and close student-faculty interaction. Applications from women and historically underrepresented minorities are particularly welcome. For more information about Oxford College and for a full listing of open positions, visit <http://oxford.emory.edu/hiring.EEO/AA/Individuals> with Disabilities/Veteran Employer

Dr. Michael Martin Lecturer

Oxford College of Emory University

Department of Biology

110 Few Circle

Oxford, GA 30054

Science Building Rm 308 | 770-784-8395

<https://michaelmartinevobio.wordpress.com/> Pronouns - he, him, his

“Martin, Michael” <michael.martin@emory.edu>

SGN Tübingen Tech Human Evolution

For over 200 years the Senckenberg Gesellschaft für Naturforschung (SGN) represents one of the most relevant institutions investigating nature and its diversity. Currently, scientists from more than 40 countries across 11 locations in Germany conduct research in the fields of biodiversity, earth system analysis and climate change. The Senckenberg Centre for Human Evolution and Palaeoenvironment (SHEP) is located in the lively university town of Tübingen in the county of Baden-Württemberg, a town with a great deal of historical flair, offering manifold local recreation.

The Senckenberg Centre for Human Evolution and Palaeoenvironment located in Tübingen invites applications for the position of a

Technician (m/f/d) for the technical management and coordination of the laboratory

(full-time position)

Your tasks

Technical management and coordination of the lab
3D Visualisation & 3D Printing: Technical operation of a 3D visualisation laboratory.
3D visualisation and modelling of scientific objects using Nikon XT H-320 micro-CT

and Artec surface scanners
Supervision and guidance of staff to work independently with hardware and software of the laboratory, as well as participation in workshops for students
Equipment and IT support

Your profile

a successfully completed training as CT-technician or in a related field, or an academic degree and demonstrable knowledge and experience
very good knowledge of state-of-the-art technology and current trends in visual data analysis
knowledge and experience in the use and maintenance of the lab's infrastructure and software (Nikon Apps, Amira/Avizo, VG Studio, Geomagic, Artec Studio, Blender, open source programs)
very good written and spoken English, especially scientific English
very good IT skills, especially MS Office, and database skills
steaching experience and pedagogical aptitude (desirable)
you work independently and are results-oriented; teamwork, communication skills, commitment and initiative round off your profile.

What is awaiting you?

an attractive and challenging job in a globally recognized research institution
the possibility to build and extend your network with scientists at an international level
flexible working hours - annual special payment - company pension scheme - a family-conscious personnel policy (“audit berufundfamilie”)

Place of Employment: Tübingen

Working hours: Full-time (100%; 39,5 hours/week)

Contract duration: Initially limited for a period of 24 months with the possibility to become permanent.

Salary: E 9 TV-L (collective agreement for public service in the state of Baden-Württemberg)

The Senckenberg Research Institutes support equal opportunity of men and women and therefore strongly invite women to apply. Equally qualified handicapped applicants will be given preference.

You would like to apply?

You are requested to send your application documents (letter of motivation, CV and complete certificates and credentials), mentioning the reference of this job announcement (ref.#10-22001) until April 4th, 2022 by e-mail (attachment in a single pdf document) to recruiting@senckenberg.de or apply directly on our homepage via the online application form.

Scientific enquiries please feel free to contact Dr. Gabriel Ferreira via e-mail, gabriel.ferreira@senckenberg.de.

Mit freundlichen Grüßen / Yours sincerely

Isabel Gajcevic, M.A.

Personalsachbearbeiterin
 SENCKENBERG Gesellschaft für Naturforschung
 (Rechtsfähiger Verein gemäß § 22 BGB)
 Senckenberganlage 25
 60325 Frankfurt am Main
 Besucheradresse: Mertonstraße 17-21, 60325 Frankfurt
 am Main (1. OG)
 Telefon/Phone: 0049 (0)69 / 7542 -
 Leiterin Personal & Soziales
 - 1458 Loke, Uta
 Stellv. Leiterin Personal & Soziales
 - 1319 Elsen, Carina
 Team Personalbeschaffung (Recruiting)
 - 1478 Gajcevic, Isabel
 - 1564 di-Biase, Maria
 - 1204 Reitinger, Jasmin
 Fax: 0049 (0)69 / 7542-1445
 Mail: recruiting@senckenberg.de
 Direktorium: Prof. Dr. Klement Tockner, Prof. Dr.
 Angelika Brandt, Dr. Martin Mittelbach, Prof. Dr.
 Andreas Mulch, Prof. Dr. Karsten Wesche;
 Präsidentin: Dr. h.c. Beate Heraeus;
 Aufsichtsbehörde: Magistrat der Stadt Frankfurt am
 Main (Ordnungsamt)
 Mitglied der Leibniz-Gemeinschaft
 Vernetzen Sie sich mit uns: [www.senckenberg.de/-
socialmedia](http://www.senckenberg.de/-socialmedia) Isabel Gajcevic
 <recruiting@senckenberg.de>

StateUNewYork Oswego EvolutionaryBiology

The Department of Biological Sciences at the State University of New York at Oswego invites applications to fill a full time Assistant Professor (10 month).

Posting Date: March 25, 2022

Review Date: Review of applications will begin immediately and will continue until the position is filled.

Benefit Information: The State University of New York

provides an excellent benefit package.

Date of Appointment: August 2022

Description of Responsibilities: The Assistant Professor of Evolutionary Biology will teach courses in the Biology and Zoology curricula in their area(s) of expertise, including evolution. They may also contribute to general education and Honor's Program offerings. Additional responsibilities include research with undergraduates, advising, and service.

SUNY Oswego works continuously to create an inclusive environment which respects, embraces, and promotes cultural safety, belonging, civil discourse, cultural humility, and other values and goals outlined in SUNY Oswego's Strategic Diversity and Inclusion Plan.

Required Qualifications:

The Assistant Professor will have a doctoral degree by time of appointment. PhD with expertise in evolution, with the ability to leverage the Great Lakes ecoregion in their courses and research program; Experience with techniques adaptable to undergraduate teaching and research; A commitment to excellence in teaching, scholarship, and service as well as a commitment to providing meaningful learning experiences to a diverse student population through inclusive pedagogy.

Preferred Qualifications:

Post-doctoral research experience, teaching experience, and grantsmanship

At SUNY Oswego we value the diversity found in each member of our campus community and strive to create a community where that diversity is embraced and enhanced. Recognizing the strength of diversity, our mission is to foster an environment which respects, embraces and promotes cultural competence, civil discourse and active engagement in developing an inclusive and vibrant community of scholars who act as transformational agents of change and responsible citizens of the world. For more information see SUNY Oswego's Strategic Diversity and Inclusion Plan.

As a candidate seeking consideration you are asked to submit a separate statement specifically addressing how your commitment to diversity, equity and inclusion has been evidenced in your career experience and professional activity, and/or community service (volunteer work, etc.), and/or professional development. (Please see Application Instructions)

Additional Information:

If you have any questions about the position, please e-mail: Maria Sagot, Search Chair at maria.sagot@oswego.edu

To Apply Submit:

Cover letter describing interest and qualifications for position CV/Resume Research Statement Teaching Statement A statement addressing how your commitment to the college's values of diversity, equity and inclusion has been demonstrated in your teaching, professional development, research, and/or service, and how these values will be implemented in this position. Copy of unofficial (or copy of official) transcript for required degree showing degree awarded and date conferred Contact information for three professional references, who will be contacted for a reference letter upon the applicant's submission of all required application materials.

To apply use the following link:

<https://oswego.interviewexchange.com/-candapply.jsp?JOBID=144508#pageTop> Candidates are required to submit all application documents listed under "To Apply Submit" be uploaded before you can submit your application for consideration. Your application will only be accessible for consideration once all required documents have been submitted.

Maria Sagot <maria.sagot@oswego.edu>

StCloudU Minnesota PlantEvolution

Plant Biologist

Direct Link: <https://stcloudstate.peopleadmin.com/-postings/3010> Posting Details: The Department of Biological Sciences at St. Cloud State University invites applications for a tenure-track position in Plant Biology at the rank of assistant or associate professor. We seek a broadly-trained biologist, with an emphasis on botanical organisms, who addresses questions with innovative approaches to systematic, taxonomic, and/or biogeographic issues in plant biology. Of interest are individuals with expertise among the following fields that address current issues in plant biology: systematics, taxonomy, biogeography, invasive species identification and predictive modeling, genomics, and morphology. The successful candidate will be expected to develop and maintain an active research program and teach undergraduate and graduate-level courses in areas of plant biology. The successful candidate will also be expected to maintain our historically important and regionally comprehensive herbarium and will have full access to our onsite greenhouse for research and teaching. We especially encourage applications from candidates in

underrepresented groups in the biological sciences.

The successful candidate is expected to establish and maintain a professional goal to become an outstanding teacher-scholar through the use of research-based, best-practices pedagogy. They are expected to teach using both in-person and alternative delivery methods such as online and hybrid. They will regularly engage in ongoing professional development and innovation opportunities focused on pedagogical growth.

The successful candidate will share St. Cloud State's commitment to our mission, and in particular, the value we place in diversity, equity, and inclusion (DEI) as outlined in SCSU's It's Time strategic framework. Notably, we uphold the advancement of diversity, equity, and inclusion and engage in intentional actions to address systemic inequities throughout the university and surrounding environment. DEI values, practices, and strategies are embedded into the fabric of our institution and campus community, and they align with the priorities expressed in the Minnesota State system's Equity 2030 initiative. SCSU expects all of its employees to help advance these practices and to contribute to the development of an anti-racist, inclusive community.

Job Description: The faculty member will be expected to teach Bachelors and Masters-level courses such as Plant Biology, Terrestrial and Aquatic Plant Taxonomy and Identification, Wetland Plant Communities, Invasive Plant Species Management, Introductory Biology, and other courses dependent upon expertise. The faculty member will be expected to participate in a multi-disciplinary research environment that contributes to professional development and involves undergraduate and graduate students at the Masters level. Advising and committee participation are expected. The faculty member will also maintain our herbarium.

Required Qualifications: Ph.D. in Biology or related discipline - Evidence of a research program involving plant biology - Evidence of post-secondary teaching experience in biology - Evidence of demonstrated ability to teach and work with persons from culturally diverse backgrounds

Preferred Qualifications: Demonstrated experience teaching courses listed including laboratories

Post-doctoral experience - Evidence of working with taxonomy, systematics, and/or biogeography of plants - Evidence of grants and peer-reviewed publications - A research program that includes technological or quantitative components - A research program that includes plant specimen-based work - Experience working and/or collaborating with agencies likely to employ graduates from our programs

Experience mentoring students including underrepresented groups in STEM fields

About: Founded in 1869, St. Cloud State is an award-winning regional public university and proud member of the Minnesota State Universities & Colleges system. The 100-acre campus is about an hour northwest of Minneapolis and St. Paul, along the oak-crowned west bank of the Mississippi River. St. Cloud State students prepare for life, work and citizenship by exploring the world around them and making it better. St. Cloud State employees value active and applied learning, community engagement, sustainability, and global and cultural understanding. These commitments complement more than 200 majors, minors and pre-professional programs, 60 graduate programs and 250 student clubs and organizations. St. Cloud State began as a normal school in 1869 and became St. Cloud State Teachers College in 1921. Bachelor's degrees were first offered in 1925. Master's degrees debuted in 1957. In 1975, the institution became St. Cloud State University. In recent years, the University added applied doctoral programs in Higher Education

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Trinidad PaidResearchInternships FishEvol

Paid Research Internships - Ecology and Evolutionary Biology

Research interns are needed to assist in a multi-disciplinary, multi-investigator, experimental study of the evolution of species interactions in Trinidad, West Indies. The research is led by Professors David Reznick (University of California, Riverside), Joseph Travis (Florida State University), Tim Coulson (University of Oxford), and Ron Bassar (Williams College).—We seek to integrate multiple biological fields for the study of these interactions in experimental populations of guppies and killifish in Trinidad. Duties include assisting in monthly censuses of guppy and killifish populations in montane streams and helping to execute experiments in on-site artificial streams. The monthly censuses include long hours in the field and laboratory.—There will

also be 12 days off each month when interns can pursue an independent project.

Interns will be required to spend a minimum of 3-months in Trinidad, with possibility of extension. There are potential start dates in May 2022 and every month thereafter until September 2024. We will pay a monthly stipend, cover all—travel, living expenses, travel insurance, and provide housing.

Qualifications: We seek interns who are entertaining the possibility of pursuing graduate studies in some area of ecology and evolution and who wish to gain some additional field research experience before doing so.—Research will take place in semi-remote areas of Trinidad, sometimes under bad weather conditions. Applicants must be able to live and work well with others. Research will involve carrying heavy packs over slippery and steep terrain. Applicants must be in good physical condition and be able to meet the demands of field research under these conditions. Ability to drive a standard transmission vehicle is desirable but not required. Applicants with first-aid/first responder training, skills in automobile maintenance, and construction skills are highly desirable. Please address these skills when applying.

Please see our website www.theguppyproject.weebly.com < <http://www.theguppyproject.weebly.com> > for more information on the project and access to reprints. Be sure to check out our video menu, which includes a “guppy censuses” as submenu VII. It details the main tasks associated with the internship.

Applicants should send cover letter, CV and the names and e-mail addresses of three or more professional references to David Reznick (gupy@ucr.edu). At least two of the references should be academics.

Ron Bassar <rdb4@williams.edu>

UAberdeen FieldWork RangeShifts

Paid summer entomological field work in Norway and Finland The Lancaster Lab within the University of Aberdeen School of Biological Sciences (Aberdeen UK) is looking for a short-term research technician (3 months) to join our team to investigate ecological and evolutionary processes associated with range shifts caused by climate change. As climates are warming, many species, and particularly insects, are moving to higher latitudes

that have become newly suitable. To better understand this process, our team will be travelling to Norway and Finland in summer 2022 to conduct latitudinal sampling transects of the rapidly-range expanding insect species, the blue-tailed damselfly (*Ischnura elegans*). Fieldwork will be conducted by a postdoctoral research associate and 1-2 research technicians (this post). The job requires field sampling (capturing damselflies by net), and taking field data and samples to a high quality and precision. Good identification skills are a plus, as is the ability to occasionally work long hours in the field under various weather conditions. Previous fieldwork experience a plus. Valid, clean drivers license required. Candidate must be a UK resident and not requiring a visa for UK employment.

Salary will be $\approx 18,852$ - $\approx 19,623$ with placement according to qualifications and experience; travel expenses will further be covered.

We aim to have someone in post by May 20, 2022, and applications will be accepted until at least April 25, 2022.

Please send informal enquiries or CV and cover letter to Lesley Lancaster, e-mail: lesleylancaster@abdn.ac.uk

Dr. Lesley Lancaster School of Biological Sciences University of Aberdeen Aberdeen, AB24 2TZ United Kingdom (+44) 01224274551

The University of Aberdeen is a charity registered in Scotland, No SC013683. Tha Oilthigh Obar Dheathain na charthannas cliùraichte ann an Alba, ìre. SC013683.

“Lancaster, Lesley” <lesleylancaster@abdn.ac.uk> “Lancaster, Lesley” <lesleylancaster@abdn.ac.uk>

UArizona Teaching Insect Evolution

The Department of Entomology invites outstanding candidates to apply for our position as Assistant Professor of Practice. This non-tenure eligible faculty position is for a three-year appointment (contingent upon a satisfactory performance review at the end of each year and the availability of funds). The position is based on Instruction (90%) and Service (10%) with a total Full Time Equivalency (FTE) of 0.833.

<https://arizona.csod.com/ux/ats/careersite/4/home/-requisition/9166?c=3Darizona> The successful candidate will: - Teach 15 credits (e.g., 5 courses of 3 credits per

course) per calendar year. The courses will be primarily or entirely undergraduate courses taught in person and online, such as: ENTO 160 Busy Bees and Fancy Fleas: How Insects Shaped Human History, ENTO 170 Secrets of Success: How Insects Conquered Earth!, and two new courses on edible insects. (Teaching duties may be adjusted to meet the needs of the Department and College.) - Mentor undergraduate students as needed, and serve on appropriate Departmental, College and University committees as assigned.

Required/Minimum Qualifications: - Doctoral Degree (PhD) in Entomology, Biology, or a related field completed by May 1st, 2022. - Experience teaching undergraduate courses. - Experience with commitment to diversity and inclusion, established in the narrative of the Diversity and Inclusion Statement.

Documents needed to apply: - Cover letter - Curriculum Vitae (CV) - Teaching Statement (limit to 2 pages) - Diversity and Inclusion Statement (limit to 1 page) - Names of 3 references

Apply at: <https://arizona.csod.com/ux/ats/careersite/4/home/requisition/9166?c=3Darizona> For questions or more information about this position, please contact Luciano Matzkin, lmatzkin@arizona.edu

For information about our great department visit: <https://cals.arizona.edu/ento/> At the University of Arizona, we value our inclusive climate because we know that diversity in experiences and perspectives is vital to advancing innovation, critical thinking, solving complex problems, and creating an inclusive academic community. As a Hispanic-serving institution, we translate these values into action by seeking individuals who have experience and expertise working with diverse students, colleagues, and constituencies. Because we seek a workforce with a wide range of perspectives and experiences, we provide equal employment opportunities to applicants and employees without regard to race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity, or genetic information. As an Employer of National Service, we also welcome alumni of AmeriCorps, Peace Corps, and other national service programs and others who will help us advance our Inclusive Excellence initiative aimed at creating a university that values student, staff and faculty engagement in addressing issues of diversity and inclusiveness.

Dr. Luciano M. Matzkin Associate Professor University of Arizona Department of Entomology BIO5 Institute Department of Ecology and Evolutionary Biology 520-621-1955 Marley 641F www.matzkinlab.org lmatzkin@arizona.edu

UCalifornia Berkeley Ornithology Curator

Opening for Staff Curator of Ornithology, Museum of Vertebrate Zoology

The Museum of Vertebrate Zoology, UC Berkeley, is searching for a full-time Staff Curator of Ornithology. This is a career position with renewal every three years. The application deadline is April 21, 2022.

See the job position posted on the UC Berkeley website.

Here is the link:

<https://aprecruit.berkeley.edu/JPF03340>
Spencer <atrox@berkeley.edu>

Carol

UColorado Denver Teaching Evolution

<https://universityofcolorado.dejobs.org/-denver-co/senior-instructor/-360136C5D03A484C854D1926B17BB784/job/DESCRIPTION>

UNIVERSITY OF COLORADO DENVER - COLLEGE OF LIBERAL ARTS AND SCIENCES

DEPARTMENT OF INTEGRATIVE BIOLOGY

SENIOR INSTRUCTOR

POSITION #00704939- REQUISITION #25108

* Applications are accepted electronically ONLY at www.cu.edu/cu-careers The University of Colorado has a requirement for COVID-19 vaccinations and full completion thereof by 9/1/21 or upon start date. Information regarding this requirement, and exemptions can be found at:

Anschutz: https://www.ucdenver.edu/docs/-librariesprovider284/default-document-library/-3000-general-admission/3012-covid-19-vaccination-requirement-and-compliance.pdf?sfvrsn=4e9df3ba_2

Denver: <https://www.ucdenver.edu/coronavirus>
Exemptions vary by campus location/department.

Campus/Unit-Specific Exemptions:

Anschutz Campus - Accommodations may be granted for medical or religious reasons.

Denver Campus - Exemptions are allowed for medical, religious, or personal reasons.

Consolidated/Central Services Administration - Accommodations may be granted for medical or religious reasons.

The University of Colorado Denver seeks individuals with demonstrated commitment to creating an inclusive learning and working environment. We value the ability to engage effectively with students, faculty and staff of diverse backgrounds.

THE DEPARTMENT OF INTEGRATIVE BIOLOGY AT THE UNIVERSITY OF COLORADO DENVER SEEKS TO HIRE A FULL-TIME FACULTY MEMBER AT THE RANK OF SENIOR INSTRUCTOR. The department seeks an individual who has experience with research-based pedagogies and inclusive teaching practices. The position is a 9-month appointment with 90% teaching and 10% service. Depending on the candidate's expertise and interests, teaching duties could include primarily lecture courses, a mix of teaching and laboratory supervision, or primarily laboratory supervision. Teaching duties could include first-year Introductory Biology, Cell Biology, Genetics, Ecology, Evolution or Physiology, as well as other upper division courses in the hire's area of speciality. We encourage scientists working in any area of Biology to apply.

Competitive applicants will contribute to the CU Denver and the Department of Integrative Biology mission to promote diversity, equity, and inclusion in STEM education. Our student body of 15,000 is diverse: for our undergraduates, 49% are first-generation students, 52% percent are women, 42% are students of color. CU Denver qualifies for Hispanic Serving (HSI) status. CU Denver is also listed on G.I. Jobs "Military Friendly Schools" list. CU Denver is a member of The National Science Foundation's Louis Stokes Alliances for Minority Participation, and a recipient of a Howard Hughes Medical Institute Inclusive Excellence Grant for enhancing equity in STEM education. Diversity and inclusion are embedded in all aspects of campus life described further at: <http://www.ucdenver.edu/about/departments/odi-diversitymatters> . We are actively seeking faculty whose teaching and service demonstrate their commitment to inclusion and equity of under-represented individuals in STEM. Applicants should be dedicated to inclusive teaching practices, demonstrated by knowledge, experience, and plans to continue to grow in this area.

ABOUT THE UNIVERSITY:

The University of Colorado Denver is the state's premier

public urban research university and equity-serving institution. Globally connected and locally invested, CU Denver partners with future-focused learners and communities to design accessible, relevant, transformative educational experiences for every stage of life and career. Across eight schools and colleges in the heart of downtown Denver, our leading faculty inspires and works alongside students to solve complex challenges through boundary-breaking innovation and impactful research and creative work. As part of the state's largest university system, CU Denver is a major contributor to the Colorado economy, with 2,000 employees and annual economic impact of more than \$800 million. For more information, visit www.ucdenver.edu ABOUT THE DEPARTMENT:

The Department supports 2,000 undergraduate students and the Biology Major is the largest undergraduate program in the College of Liberal Arts and Sciences. The Department also offers both MS and PhD degrees with multi-disciplinary faculty participation from across the CU Denver

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UConnecticut Tech SticklebackStockCenter

The Milligan-McClellan and Bolnick Labs at the University of Connecticut are hiring a manager for the newly created Stickleback Stock Center with the official title of Research Assistant 2 or 3, depending on experience. The Milligan-McClellan Lab (<https://drkatlab.wordpress.com/about/>) is in the Department of Molecular and Cell Biology. The Bolnick Lab (<https://bolnicklab.wordpress.com>) is in the Department of Ecology and Evolutionary Biology.

Opportunities:

* Gain experience in fish husbandry * Develop laboratory and colony management skills * Learn sterile technique * Learn laboratory genetic methods such as gene editing of embryos * Conduct field-sampling expeditions for fish, microbes, and parasites * Opportunities to do outreach in STEM throughout the year * Contribute to data

collection, analyses, and writing, with the possibility of authorship on lab publications

DUTIES AND RESPONSIBILITIES The Stock Center manager's core duties include:

* Help design and install additional aquarium facility systems * Rear and breed multiple populations of stickleback representing a sample of the biological diversity of stickleback * Supervise fish health * Manage supplies and ordering for the Stock Center * Help create and manage a website and inventory system to allow users at research institutions to place orders for eggs, sperm, embryos, fish, microbes, cell lines, or gene-edited embryos * Complete orders from users (packing, shipping, etc.), including breeding fish, microinjection of embryos, etc. * Train new staff as needed * Update existing, create, and maintain Animal Use and Care Protocols * Build a set of Standard Operating Procedure (SOP) documents on Protocols.io for various aspects of stickleback husbandry to facilitate standardized care and help new stickleback researchers learn how to work with this species * Travel to conferences to promote the Stock Center's services and recruit new researchers and users * Maintain and expand stickleback microbe and parasite stocks and aid in submitting these to national biobanks

Additional optional duties may include (as time permits):

* Design and implement experiments to optimize stickleback husbandry procedures (e.g., cryogenic preservation, gene editing, microbiome manipulations, parasite infections, etc.) * Fieldwork to obtain new stocks * Help colleagues at UConn (undergraduates, graduate students, postdocs) with stickleback experiments, potentially including microbiome, immunology, parasite infection, genetic mapping, etc.

See the Milligan-McClellan (<https://drkatlab.wordpress.com/about/>) and Bolnick (<https://bolnicklab.wordpress.com>) websites for more details on ongoing research and descriptions of people. All of these projects are united around their focus on a powerful model organism—the threespine stickleback fish.

MINIMUM QUALIFICATIONS

* Bachelor's degree in Biology or a closely related discipline (e.g, Animal Science, Pathology) * Two to three years of post-degree experience or a M.S. degree and from no experience to one year of post-degree experience for a Research Assistant 2. * Four to five years of post-degree experience or a M.S. degree and two to four years of post-degree experience for a Research Assistant 3 * Enthusiasm to learn new techniques * Evidence of strong organizational skills including detailed oriented

record keeping * Demonstrated ability to work well with others

PREFERRED QUALIFICATIONS

* Substantive experience with fish care and husbandry * Experience with research in organismal biology or microbiology * Experience with fieldwork collecting fish or other vertebrates for research

APPOINTMENT TERMS This is a full-time, (40-hour per week), in-person, 12-month position (annually renewable). Renewal will be contingent upon performance and the availability of funding.

TERMS AND CONDITIONS OF EMPLOYMENT Employment at the University of Connecticut is contingent upon the successful candidate's compliance with the University's Mandatory Workforce COVID-19 Vaccination Policy < <https://policy.uconn.edu/2021/08/18/mandatory-workforce-covid-19-vaccination/> >. This Policy states that all workforce members are required to have or obtain a Covid-19 vaccination as a term and condition of employment at UConn, unless an exemption or deferral has been approved. Employment of the successful candidate is contingent upon the successful completion

— / —

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UEastAnglia ResTech ZebrafishEvolution

FACULTY OF SCIENCE SCHOOL OF BIOLOGICAL SCIENCES

Research Technician REF: TC806 Fixed-Term

22,847 to 26,341 per annum, pro-rata

We are looking for a research technician to join our expanding zebrafish facility at the School of Biological Sciences (BIO) at the University of East Anglia. The successful candidate will be in charge of managing the facility and of the maintenance and breeding of our zebrafish, as well as assisting with the diverse research projects running in the lab.

The successful candidate will be a full member of the PI's group (see our lab homepage for more information:

<https://simoneimmler.com/>) and is expected to actively participate in group activities including lab meetings and journal clubs. The School of Biological Sciences at the UEA offers a vibrant research environment with a large number of research groups working on questions related to this project.

We are seeking an applicant with a degree in Biology in the widest sense who has experience in lab managing. Along with excellent interpersonal skills and the ability to use initiative, and apply creativity, to solve problems which are encountered in the daily routines, you will need to fulfil all the essential criteria of the job description.

This post is available from 1 September 2022 on a fixed-term basis until 31 August 2023, with the possibility of extension for the duration of the ERC CoG. The post is full-time, but part-time working hours (minimum 0.5fte) will be considered.

Closing Date: Monday 11 April 2022

To apply for this vacancy, please follow the online instructions at: <https://myview.uea.ac.uk/webrecruitment/> The University is committed to diversifying its workforce. As examples, we already hold an Athena SWAN Silver Institutional Award in recognition of our advancement towards gender equality. We also have a Vice-Chancellor led Taskforce on Tackling Racism and a Race Equality Charter Working Group which support our work on race equality. Our aim is to submit to the Race Equality Charter in 2024.

Kind regards,

Olivia Wallace Resourcing Adviser Resourcing, Reward and Performance, People and Culture Division University of East Anglia, Norwich Research Park, Norwich NR4 7TJ

Visit—UEA Media Room—for breaking news and expert comment. — Gold (Teaching Excellence Framework 2017-2021) World Top 200—(Times Higher Education World University Rankings 2020) UK Top 25—(The Times/Sunday Times 2020 and Complete University Guide 2020) World Top 50 for research citations—(Times Higher Education World University Rankings 2020) Athena SWAN Silver Award holder in recognition of advancement of gender equality for all (Advance HE 2019)

UEA Resourcing Team <staff.recruitment@uea.ac.uk>

UFreiburg Molecular Evolutionary Biology

The Faculty of Biology at the University of Freiburg (Germany) invites applications for

*an Assistant Professorship (Akad. Rat*Rätin auf Zeit) in the field of Molecular Evolutionary Biology*

The Institute of Biology I is seeking highly motivated candidates with experience and research interests in the area of evolutionary biology.

The candidate should have a strong background in evolutionary biology and molecular genetics/genomics. The applicant should be familiar with genomic analyses and molecular genetic techniques. Ideally, the candidate should work on social evolution in its broadest sense (including, social microbes, mutualism, parasitism, selfish genetic elements..).

The position is part of the group led by Prof. Dr. Judith Korb 'From Gene to Ecosystem' at the department of Evolutionary Biology and Animal Ecology.

The University of Freiburg is a top research location in Germany. Freiburg is a university town, located in one of the warmest regions of Germany, next to the black forest and close to Alsace and Switzerland. The vibrant town offers a living environment surrounded by beautiful scenery, plenty of entertainment and cultural activities.

Candidates for the position must hold a PhD and should establish externally funded projects, supervise students, contribute to the teaching mission of the department (4 hours/week) and will have the opportunity to obtain the 'Habilitation' (a German qualification supportive in applications for professorships). The civil servant requirements must be fulfilled.

Funding of this position is initially secured for three years and can be extended for another three years.

Interested candidates should send an application (as a single e-mail attachment) containing a complete CV, reprints (pdf-files) of three representative papers and a concise description of current and future research concepts. Applicants should also arrange for two letters of reference to be submitted on their behalf to the address below.

The salary will be determined in accordance with A13.

We are particularly pleased to receive applications from women for the position advertised here.

Application

Please send your application in English including supporting documents mentioned above citing the reference number 00002136, by 15.04.2022 at the latest. Please send your application to the following address in written or electronic form:

Institut Bio I Prof. Dr. Judith Korb Hauptstr.1
79104 Freiburg Germany Or: Judith.Korb@biologie.uni-freiburg.de

For further information, please contact Frau Prof. Dr. Judith Korb on the phone number *49 761 203-2546 or E-mail judith.korb@biologie.uni-freiburg.de

General and legal remarks Full-time positions may generally be split up into two or more part-time positions, provided that there are no formal or legal barriers. Candidates are selected in accordance with the provisions of the AGG (Allgemeines Gleichbehandlungsgesetz - German General Equal Treatment Act). Applicants with disabilities (Schwerbehinderte Menschen) will be given preferential consideration in case of equal qualification. The department offering the position is liable for the content of this job posting. Textual errors do not constitute a basis for any claims or rights. The relevant human resources department has sole responsibility for all legal transactions made within the context of the selection and hiring process. Please note that breaches in privacy and unauthorized access by third parties cannot be excluded in communication by unencrypted email.

Volker Nehring <volker.nehring@biologie.uni-freiburg.de>

UHull UK 5 EvolutionAI

5 Permanent (tenured) positions, both lecturers and teaching fellows, at the University of Hull (UK) in AI / Data Sciences that explicitly includes Biosciences.

The launch of the new Centre of Excellence in Data Science, Artificial Intelligence, and Modelling (DAIM) at the University of Hull (UK) seeks applications for both Teaching Fellows and Lecturers within the Centre.

The post holders will be expected to undertake research and/or knowledge exchange activities within the fields of Data Science, Modelling, and/or AI in areas including but not limited to modelling & numerical analysis, high

performance computing, data science, machine learning, and computer science and visualization. We are looking for a good degree, and a PhD or equivalent, as well as a demonstrable background through teaching, research, or career experience in at least one aspect of: Data Science, AI, or Python Programming. Preference will be given to candidates who are able to provide teaching support and research or knowledge exchange expertise across a number of subject areas relevant to DAIM and who complement and enhance the overall disciplinary balance within DAIM.

Link for Lecturer positions: <https://jobs.hull.ac.uk/Vacancy.aspx?ref=FS0613> Link for Teaching Fellow positions: <https://jobs.hull.ac.uk/Vacancy.aspx?ref=FS0612> To discuss this role informally, please contact Dr. Kevin Pimblet (Director) at k.pimblet@hull.ac.uk
Kevin A Pimblet <K.Pimblet@hull.ac.uk>

UMinnesota TeachingEvolution

Link to Job posting:—<https://hr.myu.umn.edu/jobs/ext/346439> About the Job The Department of Fisheries, Wildlife, and Conservation Biology in the College of Food, Agriculture and Natural Resources (CFANS) at the University of Minnesota invites applicants for a 9-month, non-tenure track Teaching Assistant Professor position (job code 9403T). We seek applicants with a passion for teaching, particularly field courses and outdoor experiences. The position is a full-time, annually renewable appointment with an initial three-year contract. Subsequent annual renewals are contingent on department funding. It is intended to be a long-term appointment and includes a promotion path with steps of Teaching Associate Professor and Teaching Professor. Members of systematically excluded groups are encouraged to apply.

Position Description

Responsibilities include:

Teaching two or three courses per semester including a wide variety of circumstances including, but not limited to: - Team teaching - Outdoor classes that integrate active learning - Courses with enrollment ranging from 25 to 150 students - In person and online courses

The primary responsibilities are teaching the department's core field courses which teach organismal and ecosystem field sampling methods.

Additional teaching responsibilities include courses as assigned by the department head.

Service to the teaching mission of the Department of Fisheries, Wildlife, and Conservation Biology such as: - Participation in Department and College curriculum development - Sharing pedagogy-related techniques with colleagues - Serving as an academic mentor to undergraduate students in the department major - Service on department, college, or university committees

ACADEMIC RANK This is a non-tenure track, teaching scholar position.—The initial appointment will be at the rank of assistant professor with potential for advancement.

Salary and Benefits: Salary is competitive and commensurate with experience and qualifications. We anticipate a hiring salary range between \$70,000 - 80,000 dependent upon education, skills, collegiate equity, and previous experience. This is a 9-month appointment with the opportunity to obtain summer salary from research and/or educational grants up to 2.75 months. Benefits include employee health, dental, and faculty life/disability insurance, social security, faculty retirement and opportunities for professional development, including sabbatical and semester leave opportunities. Benefits are described at <http://www1.umn.edu/ohr/benefits/index.html>. The University of Minnesota benefits package includes: - Competitive wages, paid holidays. - Low cost medical, dental, and pharmacy plans. - Health care and dependent daycare flexible spending accounts. - Excellent retirement plans with generous employer contribution and immediate vesting. - Employer paid disability and life insurance. - Wellbeing program with reduced insurance premiums. - Tuition reimbursement opportunities covering 75% of eligible tuition. - Opportunities for sabbaticals and other professional leaves. - Opportunities for growth and promotion. - Employee Assistance Program. **Qualifications** Minimum Qualifications: - PhD or equivalent degree in organismal biology, or a related field at the time the appointment begins - Experience with college/university teaching of field courses in fisheries, wildlife, conservation, ecology or similar courses - Demonstrated ability to teach a variety of organismal and ecosystem based field techniques - Demonstrated commitment to working with people with diverse identities and underrepresented communities

Preferred Qualifications: - Evidence of effective teaching in both the classroom and the field - Experience working in and/or knowledge of the fields of fisheries, wildlife, ecology, or conservation - Experience working with diverse teams and students from different cultures and backgrounds - Experience teaching field work in both terrestrial and aquatic systems - Demonstrated

experience or commitment to instruction programs that supports diverse learners and builds inclusive classroom environments - Experience team teaching courses - Comfortable teaching classes in a variety of environments, active learning, field settings, and team teaching (including occasional adverse weather conditions) - Capable of building collegial interactions with partners from diverse communities and cultures to connect students to professional experiences - Ability to use and implement online or hybrid learning technologies and course delivery software to teach in multiple learning modalities

Physical Requirements: - This position requires frequent hiking off trail, frequent carrying equipment weighing up to 30 pounds, and work in occasional adverse weather conditions.

About the Department



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UMontreal AnimalGenomics

The Department of Biological Sciences of the Université de Montréal is seeking outstanding candidates for a Canada Excellence Research Chair (CERC) in animal (non human) genomics.

Eligibility criteria: - Candidates may come from academia, government or industry. - Candidates must be full professors or associate professors, who will become full professors in the year or within 2 years following the nomination; - The Program does not impose any restrictions on applicants with regard to nationality or country of residence; - Researchers who hold a full-time position at a Canadian institution may be nominated; if so, justify it (explain the real advantages for the country of transferring this person from one Canadian institution to another);

The program offers two types of non-renewable research chairs: - Chairs at \$8M, duration 8 years (up to \$1M/year) or - Chairs at \$4M, duration 8 years (up to \$500K/year);

If you are interested in applying, please contact Sophie Breton before March 25 (Department of Biological Sciences, UdeM): s.breton@umontreal.ca

Le Département de Sciences Biologiques de l'Université de Montréal recherche des candidats en génomique animale (non humain), répondant aux critères pour une Chaire d'excellence en recherche du Canada

Critères d'admissibilité:

Les candidates et candidats peuvent être issus du milieu universitaire, gouvernemental ou industriel.

Les candidats doivent être des professeures ou professeurs titulaires ou des professeures ou professeurs agrégés, qui deviendront titulaires dans l'année ou dans les 2 années suivant la mise en candidature;

Les candidates et candidats provenant d'un milieu autre que le milieu de l'enseignement postsecondaire, doivent posséder les qualifications nécessaires pour pouvoir être nommés à des postes similaires;

Le Programme n'impose aucune restriction aux candidates et candidats, en ce qui concerne la nationalité ou le pays de résidence;

Les chercheuses et chercheurs qui occupent un poste à temps plein dans un établissement canadien peuvent être nommés; si tel est le cas, le justifier (expliquer les avantages réels pour le pays de transférer cette personne d'un établissement canadien à un autre);

Le programme propose deux types de chaires de recherche non renouvelables :

Chaires à 8M \$, durée 8 ans (jusqu'à 1M \$/année) ou Chaires à 4M \$, durée 8 ans (jusqu'à 500K \$/année); Vous avez un intérêt à déposer votre candidature, veuillez contacter Sophie Breton avant le 25 mars (Département de Sciences Biologiques, UdeM): s.breton@umontreal.ca

Sophie Breton Professeure agrégée

Chaire de Recherche du Canada en Biologie Évolutive Mitochondriale // Canada Research Chair in Evolutionary Mitochondrial Biology

Département de Sciences Biologiques Université de Montréal Pavillon des Sciences, Campus MIL C.P. 6128, succ. Centre-Ville Montréal, QC, H3C 3J7 Tel. 514-343-6111 #7460

Sophie Breton <s.breton@umontreal.ca>

USFWS National Hatchery Operations Coordinator

All enquiries to Nathan Wilke <nathan_wilke@fws.gov>

Hello folks,

We've got an awesome position open, and I'd appreciate it if you can circulate it to folks in the captive rearing and conservation.

National Hatchery Operations Coordinator (GS12/13): <https://www.usajobs.gov/GetJob/ViewDetails/-642980900> Location: Negotiable

Hiring Authority: STEM Direct Hire Authority

Open: March 17-31, 2022, or up to 100 applicants ... whichever comes first.

Description: Join the USFWS headquarters team to shape the future of captive rearing in conservation. We're looking for a skilled communicator and project manager with a strong background in aquaculture and science to help coordinate efforts, vision, and priorities for an 84-facility captive rearing program producing upwards of 150 million individuals spread across 80-100 species annually. We value innovation, team commitment, and passion for conservation. Captive rearing is critical in maintaining biodiversity today and into the future, and we look to be a global leader in its responsible and effective application.

Please see the announcement for more details.

Thanks,

Nate

Nathan Wilke (he/him/his) Chief, Branch of Hatchery Operations and Applied Science <https://www.fws.gov/fisheries/> Celebrate Fish 150!

US Fish and Wildlife Service Headquarters 5275 Leesburg Pike Falls Church, VA 22041 (c) 703.350.9076 (o) 703.358.2463

"Rodriguez-Clark, Kathryn M." <Rodriguez-ClarkKM@si.edu>

UZurich LabManager PlantMicrobeInteractions

Lab manager, Institute of Evolutionary Biology and Environmental, Studies, University of Zurich

The research group of Prof. Anna-Liisa Laine is seeking a Laboratory Manager for a one year position with the possibility of becoming permanent. Research in the group is focused on understanding the ecology and evolution of plant-microbe interactions in both wild and managed systems. The research combines ecological field surveys and experiments with molecular biology and mathematical modeling. Our research sites are located in the Åland archipelago of Finland, in the Swiss Alps and the Irchel campus of University of Zurich.

We are looking for a highly motivated and organized individual to coordinate our research in experimental settings as well as in the laboratory, and to handle the financial and administrative tasks of our group. The position is ideal for someone with a strong interest in research and experience of working in a University environment and laboratory setting. The successful candidate should have a background in molecular biology or field ecology, and may hold a MSc or PhD degree in Biology (ecology, evolutionary biology, plant biology, microbiology, molecular biology or similar).

The regular tasks include coordinating and overseeing laboratory, field & greenhouse experiments with plants and their microbes. Experience in standard laboratory protocols in molecular biology (e.g. PCR, qPCR, DNA and RNA extraction) is required, as well as ability to manage the laboratory (keeping samples and sample databases organized, organization of laboratory facilities, maintenance of equipment, management of ordering of laboratory supplies, training of new lab members). Additionally, the position involves the financial and administrative management of the group. This includes most purchasing, financial reporting to local and international stakeholders, supporting incoming group members, group and project budgeting.

We are looking for someone who is highly motivated, communicative, interested to learn new techniques, organized, and capable of working both independently and in a team. The working language in the laboratory is English, and good German skills are also required.

Zurich is a highly attractive city in beautiful surround-

ings, with a highly international population, and many educational and recreational opportunities. To be considered, please send a single (!) PDF file merged from the following parts: letter of motivation (max 1 page), CV, and three references to viviana.loaiza@ieu.uzh.ch. Please include the word LAINELAB22 in the subject line. The application deadline is March 31st, 2022. The position is available in May 2022, with some flexibility in the starting date.

For more information on the group, please visit <https://lainelab.net/>. For questions on the position, please contact Prof. Dr. Anna-Liisa Laine, anna-liisa.laine@ieu.uzh.ch

Anna-Liisa Laine <anna-liisa.laine@ieu.uzh.ch>

WageningenU EvolutionSystematics

Assistant Professor (Tenure-Track): Evolution and Systematics, Wageningen University This vacancy will be listed up to and including Thursday, March 31st, 2022.

<https://www.wur.nl/en/vacancy/Tenure-track-position-Evolution-and-Systematics.htm> We are looking for Are you an independent, creative and enthusiastic researcher using phylogenetics, phylogenomics and/or genomics to address questions about arthropod biodiversity and evolution? Do you enjoy generating high-level fundamental science? Are you an engaged educator with experience in teaching arthropod systematics, ecology and/or evolution? Are you collaborative and well organized? Would you like to work in a young, diverse and supportive group? Then this may be the right position for you.

The mission of the Biosystematics group at Wageningen University & Research is to answer fundamental questions about biological diversity and its origins, especially in relation to (crop) plants and interacting organisms like insects, nematodes, bacteria and fungi.

- You have an excellent scientific track record in phylogenetics, phylogenomics, evolution and/or genomics. - Your research focusses on arthropod/insect species and complement the current expertise in the group. - You are an organized and enthusiastic teacher, experienced in lecturing and supervision of BSc and MSc students, willing to contribute to high-quality education in topics ranging from biodiversity, systematics, to (molecular) biology. - Finally, you are a collaborative team member, contributing to the organization of our group, the

university and the scientific community at large.

You will spend approximately 40% of your time on research, 40% on education, and 20% on organization.

In this challenging career trajectory: - you acquire, lead and implement innovative and creative(inter-) national research projects in phylogenetics, phylogenomics, evolution and/or genomics; - you collaborate with colleagues and supervise PhD students, BSc and MSc theses and you develop and teach courses; - you contribute to the further development of the Biosystematics Group.

Tenure Track is a career path for scientists in education and research. We seek to attract scientific talent and to stimulate and support their development.

We ask - You should have several years of experience in research and teaching in academia after obtaining a PhD degree, with relevant background to build on. - A successfully completed academic study (MSc level, recognized in the Netherlands) and a PhD in evolution, systematics, genomics, or a comparable discipline are required. - You should have a vision on how your research and teaching could contribute to these themes. - As we teach courses for first-year students, knowing Dutch or the willingness to learn Dutch is required.

We will evaluate your application on several criteria: - research quality and output; - experience in (efforts toward) acquiring external research funding; - international (research) experience; - activity in the specific scientific community; experience in education innovation and curriculum development; - experience in BSc/MSc thesis and (PhD dissertation) supervision; - management of (interdisciplinary) research projects; - team player.

We offer Wageningen University & Research offers excellent terms of employment. A few highlights from our Collective Labour Agreement include:

- sabbatical leave, study leave, and paid parental leave; - working hours that can be discussed and arranged so that they allow for the best possible work-life balance; - the option to accrue additional holiday hours by working more, up to 40 hours per week; - there is a strong focus on vitality and you can make use of the sports facilities available on campus for a small fee; - a fixed December bonus of 8.3%; - excellent pension scheme. In addition to these first-rate employee benefits, you will be offered a fixed-term, 7 year contract which, upon positive evaluation based on criteria elaborated in the University's Tenure Track policy, can lead to a permanent employment contract as professor. Depending on your experience, we offer a competitive salary of between euro 3.821,- and euro 5.230,- (assistant professor position) for a full-time working week of 38 hours in

accordance with the Collective Labour Agreements for Dutch Universities (CAO-NU) (scale 11).

Wageningen University & Research encourages internal advancement opportunities and mobility with an internal recruitment policy. There are plenty of options for personal initiative in a learning environment, and we provide excellent training opportunities. We are offering a unique position in an international environment with

a pleasant and open working atmosphere.

You are going to work at the greenest and most innovative campus

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Celegans MutationAccumulationLines

C. elegans mutation accumulation (MA) lines / community resource

A set of ~1000 C. elegans spontaneous mutation accumulation (MA) lines will be publicly available in the next few months. The lines are derived from six starting genotypes (CB4856, MY6, XZ1516, JU390, EG8072, and JU1395) and have been maintained under standard conditions for a maximum of 300 generations (Gmax00) of single-individual transfer (i.e., $N_e \sim 1$). For each nearly-isogenic strain, we initiated two sets of 100 MA lines; one set maintained in the Baer lab at the University of Florida and one set maintained in the Katju lab at Texas A&M. Each genotype includes five replicate large-population controls. Lines have been cryopreserved at 50-generation intervals. We also cryopreserved a set of 48 replicate “pseudolines” (PS lines) at the outset of the experiment; PS lines are identical to the MA lines except they have only diverged from the ancestor for ~3

generations rather than ~300 generations. The PS lines have been and the Gmax00 lines will be cryopreserved in sets of 48 lines, which can be shipped frozen upon request. Cryopreserved intermediate generations are also available but have not been cryopreserved in sets. Plans are afoot to sequence the genomes of the lines; sequence data will be made public as it is collected.

Please direct inquiries to Charles Baer (cbaer@ufl.edu).

Funding provided by NIH award GM127433.

-Charles F. Baer (University of Florida) -Vaishali Katju (Texas A&M University / Uppsala University, Sweden)

Charles F. Baer Professor Department of Biology / University of Florida Genetics Institute 621 Bartram Hall 876 Newell Dr. University of Florida Gainesville, FL 32611-8525 USA

Office: 352-392-3550 <tel:352-392-3550> CELL: 352-327-1138 <tel:352-273-0143> Fax: 352-392-3704 <tel:352-392-3704> Email: cbaer@ufl.edu web: <http://people.clas.ufl.edu/cbaer/about/> “Baer, Charles” <cbaer@ufl.edu>

Conservation New Grant Opportunity

The conservation non-profit Revive & Restore has recently launched the “Biotechnology for Bird Conservation Program.” Through this program, they have opened a request for proposals targeting the advancement of reproductive technologies and gene-editing techniques for the entire evolutionary diversity of birds to enable advanced genetic rescue techniques for the world’s threatened birds, which to date has posed a challenge due to the difficulties of applying mammalian technologies, like in vitro fertilization and cloning, to egg-laying reproduction. The RFP website is here: <https://reviverestore.org/biotech-for-birds-rfp/> The deadline to apply to this grant opportunity is May 1, 2022. We are requesting that researchers intending to apply send a letter of intent in advance of their proposal. I hope you will consider submitting a proposal. The advances made by researchers funded by this program will forge a brighter future for the world’s birds and wildlife conservation. Please send any inquiries to the Program Manager, Ben Novak, at ben@reviverestore.org.

Ben J. Novak Lead Scientist & Biotechnology for Bird Conservation Program Manager Revive & Restore ben@reviverestore.org 828-489-1583 Watch our TED Talk on “Intended Consequences of Helping Nature Thrive” Or listen on Apple Podcasts

Ben Novak <ben@reviverestore.org>

Epistasis Species Assemblages

dear and reputable members of the evoldir,

sorry to take your time again with this. My 2019 “epistasis and species assemblages” posting received no feedback, but during the last three years exchanges about the topic with a couple of philosophers of evolbio prompted me to write down the gedanken experiment below, to which said philosophers reacted disorientedly.

so i was wondering if some of you may suggest published precedents and/or critique the gedanken experiment biologically and/or conceptually.

i am looking forward to your feedback.

best

m

===Partitioning of Biosynthetic Flux As Restart Basis for Ecological and Evolutionary Modelling

by Marcos A. Antezana

Assume species A produces epistatically more numerous top performers than species B does, and that as individuals the top performers are phenotypically identical both intra- and inter-specifically. Assume further that there are no synergisms that allow a group of top performers to do better trophically than the sum of the solitary performances of the top performers in the group.

Assume further that the difference between the censuses of the two species’ top performers results in a clear difference between the two species’ absolute biosynthetic fluxes (processed energy and limiting molecules per unit time).

Assume also that top performers mate only with random non-top-performers and that this suffices for reproducing the two species’ genetic and phenotypic epistatic distributions (with the same proportions of epistatic top performers as each preceding generation), i.e., within-species gene frequencies are constant across generations.

Therefore the two species are not identical transmission-genetically since each generation one of them generates progeny that includes more top performers than does the progeny of the other.

After a geographic barrier that separated the two species’ two identical territories is removed, species A outcompetes species B because its more numerous top performers give it a bigger growth rate, e.g., both species are isogametic but gametes from top performers are better supplied so that more numerous better-supplied zygotes are produced by species A’s top-performers (even if the number of such zygotes per top performer is equal in both species). But again gene frequencies are changing neither in species A nor in species B.

The example seems to challenge the classic distinction between “NS (for performances)” and “evolution by NS (of genotypes)”. Indeed here the actually selected-for performance becomes apparent (think two cryptic species) only when individuals are grouped (partitioned) by “genetics” (species status) and then the two groups’ biosynthetic fluxes are contrasted.

Biosynthetically speaking, however, any partitioning of individuals into two heterospecific groups that differ in their number of top performers as much the two species here do, would match the actual biosynthetic differential of the example and would result potentially in two similarly differentiated outputs of better-supplied zy-

gotes. But it is clear that the observed evolution by NS can only happen if matings respect species boundaries and so allow the crops of epistatic top performers to be “reproduced”.

However, when dealing with say two competing ant colonies one does not worry too much about the two colonies’ individuals and groups neither intra- nor inter-colonially. Most would simply view the colonies’ duchesses as individuals that compete with each other (through their dormative “extended” phenotypes). But things would not be nearly as “obvious” if developmental noise were deciding who reproduces in each colony.

A perhaps important difference to the 2-species example of interest here is that when an ant colony’s reproductive individuals are randomly designated the biosynthetic flux becomes a whole-colony group performance that is partly funneled to the reproductive members of the colony, whereas in the 2-species example the top performers gather individually their own energy and resources and share these only with conspecifics and only at fertilization time.

Even more important may be that in the 2-species example the competing species differ in their numbers of top performers, which is akin to two competing ant colonies with different numbers of colony members or like two individuals with different numbers of somatic cells.

Be all of that as it may, it seems that in the 2-species example NS becomes “clear” only if one looks at who –genetically delimited– is being favored by NS (at least intra-generationally), i.e., the fittest becomes apparent when one finds out who is fittest.

Less polemically circularly, the example suggests the generalization that for NS to happen within “a population”, there must be irreducible absolute-fitness differences across partitions of a population’s “individuals” but these partitions must coincide to some extent with partitions of the genetic variation.

— / —

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>

The \$1000 George C Willams prize is awarded each year by the International Society for Evolution, Medicine and Public Health (<http://ISEMPH.org>) to the most significant article published the previous year in Evolution, Medicine, and Public Health, an open-access journal with an impact factor of 5.4 published by the Oxford University Press. The new Editor, Cynthia Beall, can make publication possible for all accepted articles, irrespective of the author’s financial resources. See the EMPH website for details, or contact the editor about possible submissions. <https://academic.oup.com/emph>

The 2022 Prize is awarded to: “Evolutionary selection of alleles in the melanophilin gene that impacts on prostate organ function and cancer risk”, by Ermini, Luca, Jeffrey C Francis, Gabriel S Rosa, Alexandra J Rose, Jian Ning, Mel Greaves, and Amanda Swain, all from The Institute of Cancer Research in London. T

The first author, Luca Ermini, will give a plenary presentation based on the article at ISEMPH 2022 in Lisbon, July 5-8, 2022. Abstracts for ISEMPH2022 are welcome until April 15. <https://isemph.org> The Prize Committee also recognized three finalists:

O’Brien, Siobhán, Michael Baumgartner, and Alex R Hall. 2021. “Species Interactions Drive the Spread of Ampicillin Resistance in Human-Associated Gut Microbiota.” *Evolution, Medicine, and Public Health* 9 (1): 256?;’66.

Thomas, Misty D, Akamu J Ewunkem, Sada Boyd, Danielle K Williams, Adiya Moore, Kristen L Rhinehardt, Emma Van Beveren, et al. 2021. ”Too Much of a Good Thing: Adaption to Iron (II) Intoxication in Escherichia Coli.“ *Evolution, Medicine, and Public Health* 9 (1): 53??”67.

Thompson González, Nicole, Zarin Machanda, Emily Otali, Martin N Muller, Drew K Enigk, Richard Wrangham, and Melissa Emery Thompson. 2021. “Age-Related Change in Adult Chimpanzee Social Network Integration.” *Evolution, Medicine, and Public Health* 9 (1): 448?;’59.

Thanks to the Prize Committee, Constantinos Voskarides (chair), Eric Shattuck, and Jessica Hoffman, and to all authors who published articles in Evolution, Medicine, and Public Health.

nesse@asu.edu

GCWilliamsPrize
EvolutionaryMedicineAwarded
LucaErmini

MPIO Seewiesen Interns EvolutionCognition

Opportunity!

Projects available for Master's/Bachelor's students and self-funded Interns in Comparative Cognition Research Station at Tenerife, Spain run collaboratively between the Max-Planck Institute for Ornithology and the Loro Parque Foundation

The Max-Planck Comparative Cognition Research Group (CCRG)

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

Preferable time of joining: It is highly preferable if students can join by April-May 2022

Logistics: The projects for Master's/Bachelor's theses and internships require a minimum of 4 months but ideally 6 months of continuous commitment at the research station in Tenerife, Spain. Accommodation can be provided in a shared student apartment (Puerto de la Cruz, Tenerife, Spain).

Important skills/qualifications:

Selected candidates need to have:

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

- Good verbal English skills
- Good teamwork attitude and social skills

Submit your request!

For more information on how to apply, please email Dr. Anastasia Krasheninnikova (akrashe@orn.mpg.de), the Msc Esha Haldar (ehaldar@orn.mpg.de) or the Msc. Sara Torres (storres@orn.mpg.de).

Nominations ZukunftskollegAward2022 EvolutionBehaviour

Final Call for Nomination Thursday March 31: Zukunftskolleg Research Award 2022 "Evolution of behaviour"

Dear Madam or Sir

The Zukunftskolleg Research Award was named after the Institute for Advanced Studies founded at the University of Konstanz in 2009, the "Zukunftskolleg". It is aimed at early-career researchers in the phase after their doctorate and before their first permanent position. Excellent research, high visibility, scientific and research networks as well as transdisciplinary communication create an environment that strengthens individual fellows at the most vulnerable stage of their academic careers.

Topic "Evolution of behaviour" Evolution is the driving force behind the beauty of life on earth: Bacteria, plants, fungi and animals with their amazing diversity have always fascinated people. Behaviour in this framework is both the result of evolutionary change and a driver of long-term change.

However, we are still far from understanding the reciprocal relationships: How do evolutionary mechanisms inhibit or force the development of new behavioural skills? How do new behavioural traits affect speciation, selection pressure or even extinction? The Zukunftskolleg Research Award will recognize a researcher who breaks new ground in these exciting times: How does evolution shape behaviour? How do collectives respond to evolutionary pressures? How can animal communities change the environment through their behaviour and thus modify the selection pressure for themselves and other species? The University of Konstanz has a strong tradition of outstanding research in evolutionary biology since its foundation in 1966. The very first professor of evolutionary biology at this university, Professor Hubert Markl, understood that evolution and behaviour must

be considered together. Behaviour is not an individual characteristic, but happens in groups. In cooperation with the Max Planck Institute of Animal Behaviour, the University of Konstanz hosts the Cluster of Excellence “Centre for the Advanced Study of Collective Behaviour”, which attracts outstanding scientists from the fields of biology, psychology, computer science, economics and physics.

Nominate excellent researchers for the Zukunftscolleg Research Award until March 31, 2022.

<https://stellen.uni-konstanz.de/jobposting/-e547d0540c078c45c47636ccc63ccf245b305ad70> Find more information on the Award and Zukunftscolleg here: <https://www.uni-konstanz.de/zukunftscolleg/-about-zukunftscolleg/zukunftscolleg-research-award/>
Best regards

Petra-Alexandra Buhl, M.A.

Coordinator Zukunftscolleg Research Award
Zukunftscolleg Universität Konstanz D - 78457 Konstanz
<http://www.zukunftscolleg.uni.kn>
zuko-award2022@uni-konstanz.de zuko-award2022@uni-konstanz.de

Omenn Prize Best 2021 Article On Evol Medicine

Nominate an article for the \$5000 Omenn Prize for best article on a topic related to evolution in the context of medicine and public health.

Full information at <https://isemph.org/Omenn-Prize>
The \$5000 Gilbert S. Omenn Prize is awarded by the International Society for Evolution, Medicine, and Public Health (<http://isemph.org>) for the best article published in the previous calendar year on a topic related to evolution in the context of medicine and public health.

Nominations are open until April 8, 2022 for the best article in any peer-reviewed journal on a topic related to evolution in the context of medicine and public health with a final publication date in 2021. The winning article will be announced May 1, 2022 and the prize will be awarded to the first author of the article who will be invited to give a plenary talk at the 2022 ISEMPH Annual Meeting July 5-9 in Lisbon, Portugal.

All peer-reviewed articles with a publication date of 2021 that use evolutionary principles to advance understanding of a disease or disease process are eligible.

The prize committee will give priority to articles with implications for human health, but many basic science or theoretical articles have such implications. Authors are encouraged to nominate their own articles, but nominations of articles by others are also welcome. Articles by author's with close associations with members of the prize committee are not eligible.

The prize is made possible by a generous donation by Gilbert Omenn, M.D., PhD. Director of the Center for Computational Medicine and Bioinformatics at the University of Michigan where he is a Professor of Internal Medicine, Human Genetics, and Public Health. Dr. Omenn served as Executive Vice President for Medical Affairs as Chief Executive Officer of the University of Michigan Health System from 1997-2002. He is a past president of the American Association for the Advancement of Science and a member of the Institute of Medicine of the National Academy of Sciences.

This year's prize committee is chaired by Caleb Finch.
Randolph Nesse <nesse@umich.edu>

Pyrenees Fieldwork Volunteers Deadline Mar 20

Fieldwork volunteers wanted (Deadline Approaching)
Help us study plant evolution in the Spanish Pyrenees!

Nick Barton's group at the Institute of Science and Technology (IST) Austria (<https://bartongroup.pages.ist.ac.at/>) is looking for volunteers to assist with fieldwork on plant speciation in the Spanish Pyrenees this coming summer (late May - early August). This is a great opportunity for anyone looking to obtain experience in fieldwork related to evolutionary biology, speciation and plant ecology.

The project: We study evolutionary dynamics and speciation in snapdragons. The study, which has been running since 2009, involves fieldwork in natural hybrid zones between two subspecies with flower colour differences. The goal is to understand how different evolutionary forces like natural selection have shaped this diversity.

The fieldwork: We are seeking volunteers to assist with the fieldwork, which involves working in teams to map locations of individual plants (GPS) (the plants are primarily found on the roadsides), tag and sample them for leaves and flowers, measure traits, and process material for later DNA extraction. There may also be oppor-

tunities to be involved in other projects focusing on pollinator behaviour and plant-insect interactions. The work is outdoors as well as indoors - about one-third of the time will be spent indoors curating leaf samples and organizing and preparing sampling equipment. The work is highly team orientated, typically in groups of 2-3 in the field and larger groups processing samples back at the research station. Since we aim to sample all living individuals in the hybrid zone during the flowering season, the daily workload can vary significantly. At peak season, we are often very busy and our daily routines change accordingly.

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

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

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

How to apply? By the closing date of March 20th please send (i) your CV, (ii) a short explanation about why you are interested, and (iii) your availability between the above dates to fieldvolunteer2022@gmail.com. Please send any questions to the same address.

For fieldwork photos and more information, please visit the Barton Group field work page: <https://bartongroup.pages.ist.ac.at/fieldwork-2022/>
Arka Pal (arka.pal@ist.ac.at) Sean Stankowski (sean.stankowski@ist.ac.at)

Arka Pal <arka.pal@ist.ac.at>

Seminar ESEB STN Speciation Mar29

Dear colleagues,

A reminder that the third session of the monthly online seminar series organised by the ESEB-funded STN network *i*₂ Integration Of Speciation Research *i*₂ (<https://speciation-network.pages.ist.ac.at>) will be held on Tuesday 29th March 2022, 5 pm CET. Previously this event had to be postponed due to technical problems.

This is the final session of a series of three addressing the general topic of bridging the gap between micro- and macro-evolution in speciation research. This session will focus on the role of phylogenies and broad-scale comparative analyses in bridging this gap.

We welcome as speakers *Hi*₂*i*₂ *i*₂ne Morlon (Ecole Normale Sup*2**i*₂rieure, France) and Daniel Rabosky (University of Michigan, US). The session will last 1.5 hours. The first hour is dedicated to talks from our speakers and questions, and the last half an hour to more general discussion.

To attend the session live, please follow the link below:

Webinar link: <https://guse.zoom.us/j/61007486919?pwd=bXYyY2l6UjU5UG5tNUNuNVdnUXZiZz09> Passcode: 940593

Talks (but not discussion sessions) are recorded and are available here: <https://www.youtube.com/channel/UCIEkDdE.5sDw70SQq78DIAA> The IOS network does not only aim at scientific integration, but also integration of the community. A main objective on this front is to foster diversity and inclusion across the field. The seminar series and subsequent discussion is open to everyone, from students to established researchers and non-scientists alike. In order to maximise the geographic diversity of attendees, we will alternate between two time slots every other month: 5 pm CET and 9 am CET. Please help us to circulate this email to anyone who may be interested, especially those in countries that are typically underrepresented in scientific discourse.

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

the IOS website.

We look forward to seeing you there!

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

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

Seminar ESEB STN Speciation Mar8

Dear colleagues,

A reminder that the third session of the monthly on-line seminar series organised by the ESEB-funded STN network $i_{\frac{1}{2}}$ Integration Of Speciation Research $i_{\frac{1}{2}}$ (<https://speciation-network.pages.ist.ac.at>) will be held on Tuesday the 8th of March 2022, 5 pm CET. This is the final session of a series of three addressing the general topic of how to bridge the gap between micro- and macro evolution in speciation research. This session will focus on the role of phylogenies and broad scale comparative analyses in bridging this gap.

We welcome as speakers $Hi_{\frac{1}{2}}li_{\frac{1}{2}}$ ne Morlon (Ecole Normale Sup $i_{\frac{1}{2}}$ rieure, France) and Daniel Rabosky (University of Michigan, US). The session will last 1.5 hours, with the first hour dedicated to the two talks and questions, and the last half-an-hour dedicated to a discussion session.

Talk titles:

$Hi_{\frac{1}{2}}li_{\frac{1}{2}}$ ne Morlon: Towards process-based comparative models for bridging micro and macroevolution speciation research

Dan Rabosky: Microevolution, macroevolution, and the origin of species: how can we make “speciation” a more predictive scientific theory?

To attend the session live, please follow the links below:

Webinar link: <https://istaustria.zoom.us/j/69732628640?pwd=-dFIGY1d3cjVoYml6NG1yeWpXYlRiQT09> Passcode: 151814

Discussion link: <https://>

istaustria.zoom.us/j/66735685984?pwd=-K09wajhQY0dvNE5pdGtKWd1xaklvQT09 Meeting ID: 667 3568 5984 Passcode: 463047

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

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

We hope to see many of you on Tuesday the 8th of March, 5 pm CET.

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

NERC Fellow School of Biosciences University of Sheffield www.cooneylab.co.uk “c.cooney@sheffield.ac.uk” <c.cooney@sheffield.ac.uk>

SMBE Leadership Nominations

Dear Colleagues,

We are writing to solicit nominations for SMBE President-Elect, Secretary and 2 Councilors whose terms will begin on January 1, 2023. All of these positions are for a duration of three years. As the society grows and thrives, council members play important roles in guiding its development and in soliciting and implementing programs that support our members, while enriching opportunities for young scientists from around the world, and overseeing our two excellent journals (MBE and GBE) as well as our annual meeting, regional meetings,

and satellite meetings.

Nominations will be reviewed by the nominations committee* who will then put forward a slate of two candidates for each position for membership vote. Past and current council members are at this URL: <https://www.smbc.org/smbc/ABOUT/-Council.aspx> Please send nominations with a brief statement in support of your suggestion (self-nominations are welcome) to Justin Blumenstiel <jblumens@ku.edu> and Nadia Singh <secretary.smbc@gmail.com>.

*Nota bene: we ask the nominators to confirm explicitly that the person they are nominating has already confirmed their willingness to run for office.

Please send your nominations by Friday, April 15, 2022.

We look forward to hearing from you!

Sincerely yours,

Nadia Singh Secretary of SMBE, on behalf of the Nominations Committee*

and

Justin Blumenstiel Chair of Nominations Committee *The Nominations Committee is composed as follows: Justin Blumenstiel (Chair), University of Kansas, United States Andrea Betancourt, University of Liverpool, United Kingdom Tal Dagan, Christian-Albrechts University of Kiel, Germany David Enard, University of Arizona, United States Jun-Yi Leu, Academia Sinica, Taiwan Aurora Ruiz-Herrera, Universitat Autònoma de Barcelona, Spain Yonas Tekle, Spelman College, United States Nadia Singh (ex officio), University of Oregon, United States

“Blumenstiel, Justin P” <jblumens@ku.edu> “Blumenstiel, Justin P” <jblumens@ku.edu>

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BangorU AmphibianMicrobiome

Postdoctoral Research Officer in transcriptomics & host-microbiome interactions Deadline: April 1st 2022

Applications are invited for a 2.5 year fixed-term, full-time Postdoctoral Research Officer in transcriptomics/host-microbiome interactions within the School of Natural Sciences, Bangor University. The successful applicant will join a thriving and diverse community of environmental scholars undertaking world-leading research. Duties will include preparation of tissue samples for (meta)transcriptomic sequencing, analysis of transcriptomic, metatranscriptomic and single-cell RNAseq datasets, liaising with and visiting US and Panamanian project partners, organising UK-US workshops, and the preparation of manuscripts for publication.

Candidates should possess a PhD (or near completion) in disease biology, host-microbiome interactions, (meta)transcriptomics, computational biology or a related discipline, preferably with expertise in laboratory and computational analysis of host-microbiome interactions and metatranscriptomes.

For informal enquiries contact: Amy Ellison
a.ellison@bangor.ac.uk

For more information and to apply:
<https://jobs.bangor.ac.uk/details.php.en?id=-QLYFK026203F3VBQB7V68LOTX&nPostingID=-6380&nPostingTargetID=6874&mask=stdext&lg=UK>
Mae croeso i chi gysylltu gyda'r Brifysgol yn Gymraeg neu Saesneg

You are welcome to contact the University in Welsh or English

Rhif Elusen Gofrestredig 1141565 - Registered Charity No. 1141565

Gall y neges e-bost hon, ac unrhyw atodiadau a anfonwyd gyda hi, gynnwys deunydd cyfrinachol ac wedi eu

bwriadu i'w defnyddio'n unig gan y sawl y cawsant eu cyfeirio ato (atynt). Os ydych wedi derbyn y neges e-bost hon trwy gamgymeriad, rhowch wybod i'r anfonwr ar unwaith a dilewch y neges. Os na fwriadwyd anfon y neges atoch chi, rhaid i chi beidio a defnyddio, cadw neu ddatgelu unrhyw wybodaeth a gynhwysir ynddi. Mae unrhyw farn neu safbwynt yn eiddo i'r sawl a'i hanfonodd yn unig ac nid yw o anghenraid yn cynrychioli barn Prifysgol Bangor. Nid yw Prifysgol Bangor yn gwarantu bod y neges e-bost hon neu unrhyw atodiadau yn rhydd rhag frysau neu 100% yn ddiogel. Oni bai fod hyn wedi ei ddatgan yn uniongyrchol yn nhestun yr e-bost, nid bwriad y neges e-bost hon yw ffurfio contract rhwymol - mae rhestr o lofnodwyr awdurdodedig ar gael o Swyddfa Cyllid Prifysgol Bangor.

This email and any attachments may contain confidential material and is solely for the use of the intended recipient(s). If you have received this email in error, please notify the sender immediately and delete this email. If you are not the intended recipient(s), you must not use, retain or disclose any information contained in this email. Any views or opinions are solely those of the sender and do not necessarily represent those of Bangor University. Bangor University does not guarantee that this email or any attachments are free from viruses or 100% secure. Unless expressly stated in the body of the text of the email, this email is not intended to form a binding contract - a list of authorised signatories is available from the Bangor University Finance Office.

Amy Ellison <a.ellison@bangor.ac.uk>

Bolzano Italy InsectSymbiontGenomics

A Postdoctoral position is offered at the Free University of Bozen-Bolzano (Italy) in the lab of Hannes Schuler. The successful applicant will be involved in different ongoing projects in the research group focusing on sym-

bionts of psyllids, Rhagoletis fruit flies and bark beetles. The position is funded for one year renewable for eight months with a potential extension.

The project aims to unravel factors influencing phytoplasma transmission by plant-sucking insects. Phytoplasmas are bacterial pathogens that cause hundreds of plant diseases affecting many important vegetables and fruit crops, thus being responsible for high yield losses worldwide. These pathogens reside in the plant's phloem and transmission among plants is mainly mediated by phloem-sucking insects. Apple proliferation is a disease caused by the phytoplasma 'Candidatus Phytoplasma mali'. While several phloem feeders occur on apple, only a small number is able to acquire and transmit phytoplasmas. We aim to unravel different phytoplasma transmission pathways in different insect vectors using a population genetic approach.

We are looking for an enthusiastic candidate with a strong background in next-generation sequencing and bioinformatic analyses. The candidate will be responsible to investigate factors affecting transmission efficiency of *Phytoplasma mali* by the two main vectors *Cacopsylla picta* and *Cacopsylla melanoneura*. Specifically, s/he will perform population genetic analyses of the insects and its symbionts.

The following activities are planned: - Insect sampling
- Experimental acquisition and transmission of phytoplasma - Genetic characterization of different insect-vector species and populations - Sequencing and characterization of various endosymbionts

The project is in close collaboration with Christian Stauffer (Boku Vienna), Katrin Janik (Research Centre Laimburg), Rosemarie Tedeschi (University of Turin) and Omar Rota-Stabelli (Fondazione Edmund Mach).

The Free University of Bozen-Bolzano is located in one of the most fascinating European regions, at the crossroads between the German-speaking and Italian cultures. Its trilingualism in teaching and research, its high level of internationalisation as well as an ideal study environment guaranteed by its excellent facilities are some of the reasons why unibz regularly reaches top positions in national and international rankings. The Schuler lab is member of the newly funded Competence Centre for Plant Health, a joint institution which consists of several research groups in the field of Biology, Agricultural Sciences and Engineering <https://www.unibz.it/en/home/research/competence-centre-plant-health> We are a young and dynamic research group studying various aspects of insect-microbe interactions in a collaborative atmosphere <http://hschuler.people.unibz.it> We are looking for an enthusiastic candidate with a strong background in insect ecology and evolution. Compe-

tences with molecular genetic methods, next generation sequencing and bioinformatics as well as experience with ecological studies, collection and handling of insects are desired.

General requirements for the position: PhD degree (or close to completion) in Agricultural Sciences, Agricultural Biotechnology, Ecology and Evolution with a multidisciplinary profile. The candidate should have excellent communication skills and should be fluent in English.

The project is expected to start in May 2022, but the starting date is negotiable. Deadline for applications is 18.03.2022 (noon).

All documents for the application procedure can be found here: <https://www.unibz.it/en/home/position-calls/positions-for-academic-staff/5690-allgemeine-und-angewandte-entomologie-prof-schuler?group=>

For informal inquiries, and for questions about the hiring process, please contact Hannes Schuler hannes.schuler@unibz.it

Prof. Hannes Schuler Competence Centre for Plant Health Faculty of Science and Technology Free University of Bozen-Bolzano Universitätsplatz 5 I-39100 Bozen-Bolzano Tel: +39 0471 017648 <http://hschuler.people.unibz.it> Schuler Hannes <Hannes.Schuler@unibz.it>

CaliforniaStateUNorthridge EcologicalGenetics

To view this post in formatted HTML, please visit <https://lab.jbyoder.org/join-the-yoder-lab-for-postdoctoral-research> The Yoder Lab at California State University Northridge is hiring a Postdoctoral Scholar to contribute to ongoing NSF-funded research examining Joshua tree's adaptation to desert climates and coevolution with specialized pollinators, as part of the Joshua Tree Genome Project (<https://www.joshuatreegenome.org>).

The Postdoctoral Scholar will work with PI Jeremy Yoder to develop analysis of recently collected whole-genome sequence data for a "genomic inventory" of 300 Joshua trees, and integrate this with data collected from Joshua tree seedlings grown in common garden experiments. They will also help with fieldwork in the common gardens and across the Mojave, and contribute to managing the Yoder Lab's small group of graduate and undergraduate student researchers. Finally, and

perhaps most importantly, the position is understood to be one for professional development — the scholar will work with the PI to develop project ideas, identify opportunities for training or experience, write proposals for external funding and fellowships, and pursue permanent positions in academia, government, or industry.

The Yoder Lab is part of the Department of Biology at California State University Northridge, in greater Los Angeles, California, geographically convenient for professional networking and scientific interactions with six other CSU campuses, three University of California campuses, the Natural History Museum of Los Angeles County, and the California Botanic Garden. Through the Joshua Tree Genome Project, the Postdoctoral Scholar will interact with collaborators at Willamette University in Salem, Oregon; the US Geological Survey; the University of Hawai'i at Mānoa; the University of Alabama, Birmingham; and the Carnegie Institution for Science.

The position is funded for two years, and may continue longer pending additional grant or fellowship support. The annual salary will start at \$62,400, with benefits as an employee of The University Corporation, the non-profit entity that manages grants funding for CSUN.

Qualified applicants will have interest and expertise in evolution, ecology, and ecological genomics, and should have either completed a Ph.D. in a relevant field or anticipate completion before their proposed start date. Experience working with genomic data, managing data-intensive projects, and fluency in the Unix command line and the R statistical programming environment are desirable as well. The Yoder Lab welcomes all aspects of human diversity, and candidates whose identities are underrepresented in evolution and ecology are particularly encouraged to apply.

Applications will be accepted until the position is filled, but to ensure consideration they must be received by March 28. The start date is flexible, and “remote start” options will be considered.

Applicants with questions about the lab, the department, the project, or any other aspect of the position are encouraged to contact the PI: <https://lab.jbyoder.org/contact> To apply, follow instructions on the CSUN Human Resources posting for the position, at <https://careers.pageuppeople.com/873/nr/en-us/job/512082/postdoctoral-scholar-tuc-biology> Jeremy Yoder <jbyoder@gmail.com>

ColoradoStateU EvolutionGxE

Evolution and Genetics of Adaptive Plasticity in maize root systems

<https://agsci.colostate.edu/mckaylab/> The McKay Lab at Colorado State University is searching for a postdoc to research the loci underlying variation in how the root systems of maize genotypes vary across environments and time. The postdoc will use a rich and increasing set of empirical data we have generated on the genotype to phenotype map of root traits and how they respond to drought and nutrients, to generate functional genetic hypothesis. The postdoc will then design experiments to test these hypotheses using mutants and engineered genotypes in maize and other plant species.

Target application date is 31 March 2022. This position will remain open until filled.

To apply or get more information, go to

<https://jobs.colostate.edu/postings/99801>
“McKay,John” <John.McKay@ColoState.EDU>

CornellU CnidarianEvolution

Postdoc Position in the Babonis Lab at Cornell University

Posted: 7 March 2022

Open until filled

The Babonis Lab in the Department of Ecology and Evolutionary Biology at Cornell University seeks to hire a highly motivated postdoc to work on the cellular, molecular, and developmental biology of cnidarians (corals, sea anemones, jellyfish). The Babonis Lab is interested in understanding the origin of taxon-specific traits (novelties) across levels of organization. Primary areas of interest in the lab currently include: the functional diversification of cnidocytes (stinging cells), the emergence of specialized animal secretory cell types, the evolution of stem cell identity, and the origin of novel genes. The Babonis Lab uses a broad range of taxa and techniques for interrogating the evolutionary and developmental drivers of novelty and provides a highly

collaborative and interdisciplinary environment to support exploratory studies and maximize opportunities for discovery. For more information on our interests, visit: www.babonislab.com. To qualify, applicants must have a Ph.D. (or be close to earning one) and expertise in molecular biology, genetics, and biochemistry. The ideal candidate will also have significant experience with transgenesis, functional genomics and genome editing (including CRISPR/Cas9 technology), gene delivery techniques (e.g. microinjection, electroporation), and expertise in DNA and RNA sequencing and analysis.

The position will be appointed initially for 1 year with the option to renew pending satisfactory performance and available funding. Salary is commensurate with NIH standards.

To apply, please submit a current curriculum vitae, a 1-page statement of research interests detailing experience with the required and preferred techniques, and contact information for two professional references by email to Leslie Babonis (lsb257@cornell.edu). Review of applications will begin April 1, 2022 and will continue until the position is filled.

Leslie S. Babonis, PhD (she/her) Assistant Professor Curator of Marine Invertebrates Ecology & Evolutionary Biology Cornell University E145 Corson Hall Ithaca, NY 14853

babonislab.com lsb257@cornell.edu

Leslie Babonis <lsb257@cornell.edu>

Czechia ComputationalMolecularBiology

Postdoc in computational or molecular genetics

Algal evolution and ecology group (<https://www.alga.cz/en/c-874-jan-janouskovec-s-group.html>) at Centre Algatech, Institute of Microbiology, Czech Republic is seeking a postdoctoral researcher in Computational or Molecular genetics. The group, led by Jan Janoušek and Eva Horáková, is under the umbrella of the Laboratory of Photosynthesis. We study the evolution, ecology, and molecular biology of algae, protists and cyanobacteria (e.g., Janouskovec et al., 2017, PNAS 114(2); Janouskovec et al., 2017 Curr Biol 27(23); Janouskovec et al., 2019, eLife 8, e49662). Located in a picturesque historic building in the middle of a UNESCO Biospheric Reserve and regional tourist hotspot, Centre Algatech hosts several internationally recognized

groups in microbial research. With a high proportion of foreign researchers and a friendly, collegial atmosphere, Centre Algatech is driven by research excellence and currently hosts several major funding awards (ERC, EXPRO). The working language is English. We have outstanding facilities for modern biological research and strong ties with the Biology Center and University of South Bohemia in České Budějovice, the nearby regional capital.

We seek candidates with a strong background in computational or molecular biology to contribute to ongoing projects focused on single-cell sequencing, genome-to-function prediction, and gene characterization. We require a PhD degree in Computational or Molecular biology (or are about to finish one soon), first-author publications in well established journals, independent thinking, and strong communication skills. A candidate with a computational background will have experience developing computational pipelines, big data analysis, and Shell, Python/Perl, R, or other programming languages; experience with the preparation of sequencing libraries pipelines is a strength. A candidate with a molecular background will have strong experience in genetic transformation, gene cloning and expression analysis; experience with bioinformatics or metabolomics will be considered a strength.

We offer the candidates individual solid mentorship and opportunities to network, instruct PhD and MSc students and participate in international meetings. The projects involve collaboration with the University of Cambridge (UK), University of Southampton (UK), Alfred Wegener Institute (Germany) and ICM Barcelona (Spain). The institute will offer a postdoctoral contract based on standard Czech academic pay grades, considering the amount of previous experience. The contract includes health and dental insurance paid by the employer and is topped with generous benefits, including lunch vouchers, sport activity vouchers, and a paid vacation of 30 days per year. The contract will be for 3 years, including an initial probation period of 3 months. All applications received by March 31, 2022 will be reviewed.

To apply: Please send a SINGLE PDF document in English containing the following information in the following order to Lucie Fraitova: fraitova@alga.cz - Motivation letter detailing your fit for the position (1 page max.) - Curriculum Vitae including a complete list of peer-reviewed publications (3 pages max.) - Contact information for 2 academic referees (do not include letters with the application)

For further information about the position please contact: Jan Janouskovec: janouskovec@alga.cz Centre

Algatech, Institute of Microbiology, Trebon, Czech Republic

Jan Janoušek <janjan.cz@gmail.com>

Czechia Tetrahymena Genetics

Postdoctoral position in Tetrahymena genetics - Institute of Microbiology, Czech Republic

We are hiring a postdoctoral researcher in Tetrahymena genetics at the Institute of Microbiology, Czech Republic (Centre Algatech in Trebon). Our group is studying the metabolism in mitochondria and chloroplasts in a variety of protistan models: <https://www.alga.cz/en/c-874-jan-janouskovec-s-group.html>. The postdoctoral researcher will focus on understanding mitochondrial phospholipid synthesis in *Tetrahymena thermophila* by using subcellular protein localization, gene knockout, subcellular fractionation, stable isotope labelling, and other methods. We are looking for someone with previous experience in genetics on *Tetrahymena* (or other ciliates or single-celled eukaryotes), an outgoing personality, and passion for cell biology.

We study cell biology, evolution and ecology of protists and algae (e.g., Janouskovec et al., 2017, PNAS 114(2); Janouskovec et al., 2017 Curr Biol 27(23); Janouskovec et al., 2019, eLife 8, e49662). Our Centre is located in a picturesque location in the middle of a UNESCO Biospheric Reserve and hosts several internationally-known microbiology groups. The Centre has a warm, collegial atmosphere, a high proportion of international researchers, and English as the work language. We have outstanding facilities for biological research and strong ties with universities abroad: the position may include work at the University of Southampton and University of Cambridge in the UK. The position is available for three years.

The applications will be reviewed on a rolling basis and the position remains open until filled. Interviews will begin in April 2022. To receive more information or apply for the position (include a short CV with two referee contacts) please contact Jan at janouskovec@alga.cz

Jan Janouskovec Group Leader, Institute of Microbiology, Czechia

Jan Janoušek <janjan.cz@gmail.com>

Eastern Mennonite University Insect Genomics

A position is available for a postdoctoral research associate through Eastern Mennonite University to investigate control of tropical insect pests using genetic, genomic, and bioinformatic techniques, with the work location being the USDA-ARS Pacific Basin Agricultural Research Center located in Hilo, Hawaii.

The selected candidate will investigate the invasion of a new insect pest, the Queensland Longhorned Beetle, *Acalolepta aesthetica* (Coleoptera: Cerambycidae) on Hawaii Island using whole genome sequencing, transcriptome sequencing, and population genetics.

The desired candidate will have a strong background in invasion biology, bioinformatic analysis of genomic and population genetics, and computational biology through a command-line interface.

Candidates who have demonstrated strong written and oral communication skills, experience working independently and as part of a group, and strong interpersonal skills are encouraged to apply.

A PhD in biology, genetics, evolution, entomology, or related disciplines is required at the time of application.

The position will be hired through Eastern Mennonite University and the candidate selected will serve as a postdoctoral research associate with an annual salary of \$66,002 with health benefits. The position is guaranteed for one year with the possibility of extension contingent on performance. The position will be based in Hilo on the Big Island of Hawaii.

For this position, the hiring body (Eastern Mennonite University) is unable to sponsor foreign nationals, and thus all applicants must have the right to work in the United States.

If interested, please submit a cover letter, CV, and the contact information of three references to: Dr. Sheina Sim, [sheina\[dot\]sim\[at\]usda\[dot\]gov](mailto:sheina[dot]sim[at]usda[dot]gov).

While the candidate will not be employed in the federal service, it is relevant to note that the US Department of Agriculture, Agricultural Research Service is an equal opportunity/affirmative action employer and all agency services are available without discrimination.

Eastern Mennonite University is an equal opportunity employer, committed to enhancing diversity across the institution. Eastern Mennonite University does not dis-

criminate on the basis of race, color, national or ethnic origin, sex, disability, age, sexual orientation, or gender identity. EMU conducts criminal background investigations as part of the hiring process.

Sheina B. Sim, PhD USDA-ARS Daniel K. Inouye US Pacific Basin Agricultural Research Center Hilo, HI 96720 USA

“Sim, Sheina - ARS” <sheina.sim@usda.gov>

borhood in the city of Atlanta and offers a high quality of life.

People from underrepresented backgrounds are especially encouraged to apply. Emory University is an Equal Opportunity/Affirmative Action employer.

Thank you, Daniel Weissman Assistant Professor Physics, Associated Assistant Professor of Biology Emory University <http://weissmanlab.github.io> Daniel Weissman <dbweissman@gmail.com>

EmoryU

TheoreticalEvolutionaryGenetics

Postdoctoral fellowships in the Theory and Modeling of Living Systems are available at Emory University! Please see <https://livingtheory.emory.edu/news-events/-open-positions.html>. Faculty particularly interested in mentoring Fellows working on evolution include Daniel Weissman (me!), Katia Koelle, Tim Read, Rustom Antia, and Nic Vega.

Fellows are free to work with any faculty and on any project that they're interested in. I am especially looking for potential Fellows who want to develop new approaches for learning the evolutionary dynamics of viral and microbial populations from large-scale sequencing. Possibilities include working with me and Tim on understanding population structure and patterns of gene exchange in bacteria, or working with me and Katia on evolutionary dynamics in SARS-CoV-2 or influenza. I'm also very happy to hire people who would prefer to focus more on basic theory, including but not limited to evolution on fitness landscapes and the interaction between adaptation and spatial structure and their effects on genetic diversity.

If you're interested and would like to hear more about the specifics, please email me. Successful applicants will have a PhD and a strong publication record in evolution, population genetics, bioinformatics, theoretical physics, statistics, or a related field. Review of applications is ongoing. Please send your CV, a brief description of your research experience and interests, and a list of three references to dbweissman@gmail.com.

Emory University is one of the world's leading research universities, with a top-ranked program in Population Biology, Ecology, and Evolution, and opportunities for collaboration on-campus at the School of Medicine, School of Public Health, and the CDC, and across town at Georgia Tech. Emory is located within a green neigh-

FRankfurt ComparativeGenomics

Job Announcement ref. #12-22006

PostDoc Position in Comparative Genomics

The Hiller Lab at the LOEWE Center for Translational Biodiversity Genomics (TBG) in Frankfurt, Germany is looking for an ambitious Postdoc to apply and develop new comparative genomic methods.

The Project

The project combines the development of new comparative genomic methods to uncover key genomic differences with large-scale analyses to link phenotypic adaptations to genomic differences, which is a central goal in the genomics era. Powerful computational methods are fundamental to gain novel insights through comparative genomics and our lab has developed several approaches to address the phenotype - genotype question (<https://github.com/hillerlab/>). We aim at expanding our methods repertoire by detecting new “types” of relevant differences, such as genomic changes in non-coding RNAs and gene duplication events. New and existing approaches will then be applied to vertebrate genomes, including new assemblies generated in our lab, to reveal the genomic underpinnings of phenotypic differences. The postdoc is expected to work closely with other lab members and to capitalize on a wealth of comparative data for several hundred vertebrate genomes (<http://genome.senckenberg.de/>).

Our lab

The mission of our group is to understand how nature's fascinating phenotypic diversity has evolved and how it is encoded in the genome. Work in the lab includes sequencing and assembly of reference-quality genomes, genome alignment and annotation, development and application of comparative genomic methods to discover differences in genes and cis-regulatory elements, and

the use of statistical approaches to link phenotypic to genomic changes [1-9].

Our lab is part of TBG (<https://tbg.senckenberg.de/>) and Senckenberg Research Society, and is based near the city center of Frankfurt am Main, Germany. TBG provides access to cutting-edge computational (HPC clusters, genome browser) and lab infrastructure to sequence genomes. English is the working language in our lab. Senckenberg and TBG provide flexible working hours, an annual special payment, a company pension scheme, the Senckenberg badge for free entry in museums, the zoo, botanical garden and Palmengarten, a leave of 30 days per year, and a subsidy job ticket for public transport. Frankfurt is a vibrant and highly-international city at the heart of Europe that combines a skyscraper skyline with ample park and green areas.

Requirements

Applicants should have a PhD degree in bioinformatics/computational biology, computer science, genomics or a related area, and a strong publication record. Solid programming skills in a Linux environment and experience with shell scripting and Unix tools are required. Previous experience in comparative genomics is an advantage.

Place of employment: Frankfurt am Main

Working hours: full time (40 hours/week)

Type of contract: initially for 2 years, but funding is available to extend it further

Salary and benefits: according to the collective agreement of the State of Hesse

(pay grade E13 100%)

The position is fully funded and should ideally start as soon as possible.

The employer is the Senckenberg Gesellschaft für Naturforschung who supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference.

How to apply

Please send your application, mentioning the reference of this job announcement (ref.#12-22006), by e-mail to Michael Hiller (michael.hiller@senckenberg.de) and recruiting@senckenberg.de.

The application should include the reference number of this job announcement, a CV with 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.

The application deadline is April 5th, 2022.

For more information please contact Prof. Dr. Michael Hiller, michael.hiller@senckenberg.de or visit <https://tbg.senckenberg.de/personen/hiller/>. Recent publications

- [1] Blumer et al. Gene losses in the common vampire bat illuminate molecular adaptations to blood feeding. *Science Advances*, 2022
- [2] Roscito et al. Convergent and lineage-specific genomic differences in limb regulatory elements in limbless reptile lineages. *Cell Reports*, 38(3):110280, 2022
- [3] Jebb et al. Six reference-quality genomes reveal evolution of bat adaptations. *Nature*, 583, 578-584, 2020
- [4] Huelsmann et al. Genes lost during the transition from land to water in cetaceans highlight genomic changes associated with aquatic adaptations. *Science Advances*, 5(9), eaaw6671, 2019
- [5] Hecker et al. Convergent gene losses illuminate metabolic and

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GothenburgU 3yr ComputationalEvolution

What: The postdoc will work in a project funded by the Swedish Research Council (Vetenskapsrådet, $\frac{1}{2}$ det) on the interactions between herbivores, vegetation and climate. The project will focus on quantifying the importance of herbivory on vegetation structure under natural conditions and the potential for this herbivory driven vegetation changes to influence global climate. This work will build upon knowledge of natural mammalian diversity patterns from the PHYLACINE database, on estimated mammalian equilibrium densities and on the dynamic vegetation model LPJ-GUESS.

Where: The position will be based in Gothenburg University in Sweden. The project team also involves collaborators from Lund University, Sweden and Senckenberg Research Institute, Germany.

Deadline: April 30th

More details: Full advertisement can be found here https://web103.reachmee.com/ext/-I005/1035/job?site=7&lang=UK&validator=-9b89bead79bb7258ad55c8d75228e5b7&job_id=24578

Applicants are more than welcome to contact me with questions (soren.faurby@bioenv.gu.se or @FaurbySoren)

Søren Faurby Gothenburg University and GGBC @FaurbySoren

Søren Faurby <soren.faurby@bioenv.gu.se> Søren Faurby <soren.faurby@bioenv.gu.se>

INRAE France PopulationGenomics

18-month Postdoc position in Population Genomics of an emerging plant parasitic nematode

We are looking for a highly motivated postdoc to work on the population genomics of the emerging plant parasitic nematode *Meloidogyne enterolobii* as part of the AEGONE project. AEGONE (for Adaptability, Origin and Genome Evolution of an emerging plant-devastating nematode) is co-funded by ANR in France and DFG in Germany. This project is a collaborative effort between Institut Sophia Agrobiotech (ISA) in France and the Julius Kühn-Institut (JKI) in Germany. ISA, which is the hosting lab, is a leader in root-knot nematode genomics and was the coordinator of the first genome sequencing project for a plant parasitic animal. The associated lab, JKI was the first to discover and describe the root-knot nematode *Meloidogyne enterolobii* in Europe and hosts a unique collection of populations for this species.

***Main goals** We aim at studying the relationship between genome variations and phenotypic variations as well as adaptability in the emerging root-knot nematode *M. enterolobii*. The postdoc will mainly have to identify and describe genome variations in this species using highly accurate long reads (PacBio Hi-Fi) for 10 populations. This will include: - SNP and short indels - Structural Variations (insertions, deletions, inversions, translocations, copy number variations)

The 10 *M. enterolobii* populations will then be genotyped using the variations discovered and compared to each other to evaluate their relatedness and distance at the whole-genome level. Experiments already performed at JKI on these 10 *M. enterolobii* populations allowed demonstrating they show phenotypic variations in terms

of virulence and ability of parasitize 20 monitored crop plants. The next step of the project will consists in monitoring whether some genome - phenome co-variations can be identified in this species.

***Skills** The candidate must: * be skilled in comparative and population genomics * have good experience in writing papers and communicating research in conferences * be familiar with Linux working environment * have a taste for teamwork

***Work environment** This part of the project will take place in the Genomics & Adaptive Molecular Evolution (GAME) team at Institut Sophia Agrobiotech (ISA) in the French Riviera. GAME is a young and international team mainly using bioinformatics and biostatistics to study adaptive genome evolution in various species interacting negatively or positively with plant health. ISA combines scientists and facilities from INRAE, Université Côte d'Azur and the CNRS. This project will benefit from the support of ISA bioinformatics & genomics (BIG) platform with local skills in bioinformatics, computational power and storage available.

***When** The position is available immediately and must start no later than the 30th of June 2022

***Salary** Gross monthly salary will be between 2,800 -3,000 EUR depending in experience and qualifications.

***How to apply** Send an e-mail to etienne.danchin@inrae.fr and attach a CV and motivation letter. Do not hesitate to use the same address to inquire about the position.

More information here:

<https://edanchin.org/job-opportunities/18-month-postdoc-position-in-population-genomics/> Etienne G.J. Danchin <http://edanchin.org> Institut Sophia Agrobiotech INRAE - Univ. Côte d'Azur - CNRS

400 route des Chappes, BP 167 06903 Sophia-Antipolis Cedex France

<http://www.paca.inra.fr/institut-sophia-agrobiotech>
Tel. +33 492 386 402 Fax. +33 492 386 587

Etienne Danchin <etienne.danchin@inrae.fr>

INRAE Toulouse ResourceAllocationModelling

18 months post-doctoral position on the evaluation of genetic trade-offs based on resource allocation modelling

(application to the reproductive effort in domestic female sheep)

*Job environment The INRAE research unit GenPhySE (<https://genphyse.toulouse.inra.fr/>) located near Toulouse, France. The overall research objective of the lab is to better understand the genetics and physiological processes underlying phenotypes of livestock in their environment. Research activities range from fundamental investigation of the structure and functional organization of genomes to finalized questions on livestock breeding and designing more sustainable livestock production systems. The post-doc will take place in a research group focusing on sheep and goat genetics (GeSPR team, Animal Genetics INRAE division). The post-doc will also be co-supervised by the Mathematics and Numerics INRAE division (MathNum), which will bring a methodological expertise for the calibration and exploration of complex models. The postdoc will also benefit from a steering community including experts on resource allocation modelling (other INRAE units, Roslin Institute, UK).

*Description To breed animals adapted to climate change and to agroecological conditions, researches in animal breeding need to better understand and model the potential trade-offs between productivity traits (e.g. growth rate, reproductive output) and adaptive capacities (e.g. body reserves) of animals. To address this challenge, the resource allocation theory developed in evolutionary biology offers an interesting framework but the validity of this framework is still uncertain in livestock species. In particular, the hypothesis that genetic variation exists in terms of resource allocation between functions has not been directly tested. Resource allocation models then provide a tool to describe and to quantify an individual's resource allocation strategy, for instance through a combination of resource allocation parameters. However, estimating the genetic variability among such parameters that are not directly observable, is challenging compared to others traits that are directly measured (e.g. body weight, milk yield). The post-doc will tackle these challenges by applying an energy allocation model that has been developed by the host team in meat sheep to experimental data from a prolific meat sheep reared in two contrasting herd environments (controlled versus variable). Specifically, the postdoc will focus on the potential trade-off between ewe reproductive effort during pregnancy and lactation (energy expenditure to ensure lambs growth and survival until weaning) and the maintenance of maternal condition (ewe body reserves). The two main objectives of the post-doc are (i) to integrate the resource allocation model into quantitative genetic methods, and (ii) to estimate genetic parameters of the trade-off between reproductive effort

and maternal condition.

*Qualifications - A PhD in animal science/ecology or/and mathematics/statistics applied to biology - Strong quantitative skills with experience in statistical and mathematical analyses - Experience in mechanistic or process-based models - Knowledge of quantitative genetics theory - Abilities to deal with large datasets - Writing and communication capacities

*Conditions Postdoctoral contract duration: up to 18 months (depending on starting date) Starting date: from 1st of April and at latest the 1st of July 2022 Gross salary: about 2500-2700 euro /month according to the level of experiences

*Contact persons (for application or any question): Frédéric Douhard (frederic.douhard@inrae.fr) Ronan Trépos (ronan.trepos@inrae.fr) Dominique Hazard (dominique.hazard@inrae.fr)

Application deadline: May 15th 2022 More information here: <https://jobs.inrae.fr/en/ot-14563> Frederic Douhard <Frederic.Douhard@inrae.fr>

InstMicrobiology Czechia MitochondrialMetabolicEvolution

Postdoctoral position in Tetrahymena metabolic evolution - Institute of Microbiology, Czech Republic

We are hiring a postdoctoral researcher to study the evolution of mitochondrial metabolism in Tetrahymena using molecular genetic tools. The group studies metabolism in mitochondria and chloroplasts in a variety of protistan models: <https://www.alga.cz/en/c-874-janouskovec-s-group.html>. The postdoctoral researcher will focus on understanding mitochondrial phospholipid synthesis in Tetrahymena thermophila by using subcellular protein localization, gene knockout, subcellular fractionation, stable isotope labelling, and other methods. We are looking for someone with previous experience in genetics on Tetrahymena (or other ciliates or single-celled eukaryotes), an outgoing personality, and passion for cell biology.

We study cell biology, evolution and ecology of protists and algae (e.g., Janouskovec et al., 2017, PNAS 114(2); Janouskovec et al., 2017 Curr Biol 27(23); Janouskovec et al., 2019, eLife 8, e49662). Our Centre is located in a picturesque location in the middle of a UNESCO Biospheric Reserve and hosts several internationally-known microbiology groups. The Centre has a friendly,

collegial atmosphere, a high proportion of international researchers, and English as the language of work. We have outstanding facilities for biological research and strong ties with universities abroad: the position may include work at the University of Southampton and University of Cambridge in the UK. The position is available for three years.

The applications will be reviewed on a rolling basis and the position remains open until filled. Interviews will begin in April 2022. To receive more information or apply for the position (include a short CV with two referee contacts) please contact Jan at janouskovec@alga.cz

Jan Janouskovec Group Leader, Institute of Microbiology, Czechia

Jan JanouÅkovec <janjan.cz@gmail.com>

Juneau Fish eDNA

The Genetics Group and the NOAA Alaska Fisheries Science Center is recruiting an NRC postdoc to use eDNA as an early warning tool to detect range shifts of important fish species in the Arctic. The candidate will work closely with research scientist Diana Baetscher to develop metabarcoding methods for presence/absence and quantification. The position is funded for two years with potential opportunities to extend. The application period ends on May 1. Please contact us if you're interested. <http://nrc58.nas.edu/RAPLab10/Opportunity/-Opportunity.aspx?LabCode=26&ROPCD=-260368&RONum=C0688&ROBaseMode=R101>

KielU IKMB HostMicrobiomeSystems

The Groussin-Poyet research group at the Institute of Clinical Molecular Biology (IKMB) at Christian-Albrechts-University of Kiel (CAU) offers 1 Postdoc position in *multi-omics investigations of host-microbiome systems.*

We are looking for postdoctoral fellows to lead multi-omics investigations of host-microbiome systems in hu-

mans. The project will leverage multiple datasets generated from healthy and clinical cohorts to ask questions about the evolution and function of the microbiome within people or between host populations. A particular focus will be made on the gut microbiome, gut bacterial isolate and human host omics data that are being generated as part of the Global Microbiome Conservancy initiative (1,2). We will discuss together on how to best design a project that pursues this research agenda but that also materializes your own ideas and fits with your career objectives.

1. Groussin*, Poyet* et al., Cell, 2021. doi: 10.1016/j.cell.2021.02.052 2. <http://microbiomeconservancy.org/> *Your profile:*

We are looking for a highly motivated candidate with a Ph.D in microbiome, genomics, host-microbe interaction, microbiology, ecology & evolution, or a related field. Candidates with an M.D. interested in pursuing an academic path are greatly encouraged to apply. A strong background in bioinformatics, including experience with the analysis of NGS data is desired. Good programming skills in R and/or Python/Perl/C++ are required, and experience with high-throughput compute environments is advantageous. Additional expertise in systems biology and/or statistics is a plus. Fluency in English (especially for oral communication and paper writing) is required.

What we offer:

This is a fixed-term position for two years, with possibility of renewal. Weekly working time is 100% of a full-time position (currently 38,50 hours per week). Working part-time is possible. Salary will be, depending on qualifications, according to the German salary scale E13 TV-L.

The UKSH has been certified as a family-friendly institution and is committed to further improve the compatibility of work and family life. The University Medical Center Schleswig-Holstein is an equal opportunity employer. People with disabilities will be given preference in case of equal qualifications.

Required Application Materials:

When applying, please submit the following items: a CV (max. 5 pages) and a cover letter (max. 2 pages). If possible, include in your cover letter the names and contact info for a maximum of 3 references.

Additional information:

For questions about the position or to apply, please contact Prof. Mathieu Groussin at m.groussin@ikmb.uni-kiel.de The application package can also be submitted here: <https://jobs.uksh.de/job/Kiel-Postdoc-position->

[Multi-omics-investigations-of-host-microbiome-systems-Schl-24105/782251501/](https://www.ikmb.uni-kiel.de/research/-junior-research-groups/genomics-and-functions-host-microbiome-systems) The application deadline is 23.03.2022. Please mention the reference number 13586 in your application and in the subject email.

Please contact recruiting@uksh.de for any further questions.

More information about UKSH and the IKMB, is also available at www.uksh.de/karriere and <https://www.ikmb.uni-kiel.de/>. More information is also available at:

<https://www.ikmb.uni-kiel.de/research/-junior-research-groups/genomics-and-functions-host-microbiome-systems> <https://microbiomeconservancy.org/> Mathieu Groussin

W2 Professor Institute of Clinical Molecular Biology (IKMB) University Hospital Schleswig-Holstein, Kiel, Germany University of Kiel

Co-founder - Global Microbiome Conservancy <http://microbiomeconservancy.org/> @mgroussi

Mathieu Groussin <m.groussin@ikmb.uni-kiel.de>

KU Leuven PolarSeascapeGenomics

POSTDOCTORAL FELLOW IN POLAR SEASCAPE GENOMICS at KU Leuven, Belgium - REMINDER

The KU Leuven invites scholars to apply for a 12 months postdoctoral fellowship on polar seascape genomics at the Division 'Ecology, Evolution and Biodiversity Conservation' (KU Leuven).

Marine science offers excellent prospects for a career, especially during the United Nations Decade of Ocean Science for Sustainable Development 2021-2030. We are looking for a motivated and internationally oriented colleague with an excellent research record. The research profile focuses on advanced expertise in seascape genomics to investigate research questions at the interface of marine evolution and global change biology. More specifically the candidate will determine the ecological and evolutionary interdependency of populations by studying the genetic structure, connectivity and adaptation of polar fish in the environmental context of the Southern Ocean and Arctic Sea. You genotype fish taxa with high throughput genomic tools and analyse connectivity and adaptation patterns with individual- and population-based statistical models. The study will re-

sult in advice on the conservation management of polar fish fitting in a context of ocean-wide resource management. The position is funded by the Federal Government and the European Union. The appointment is expected to start on May 1, 2022.

The Division 'Ecology, Evolution and Biodiversity Conservation' hosts 10 professors active in ecology, evolution and ecosystem services. The Laboratory of Biodiversity and Evolutionary Genomics (LBEG) focuses on marine ecology and evolution, and collaborates closely with RBINS staff, associated to the project. Research assignment

The candidate is expected to further develop the analysis of high-throughput (RADseq) genotypes with bioinformatic and biostatistical tools, and prepare high quality scientific publications. You will be supported in your research by colleagues skilled in molecular tools and bioinformatic pipelines, and in the oceanographic and biological context of polar research.

The candidate: * Is an excellent, internationally oriented researcher and strengthens a research programme at the forefront of seascape genomics. * Brings complementary and/or new expertise in ecological and evolutionary genomics. * Strengthens current research lines by working closely with KU Leuven staff. * Publishes at the highest scientific level in top 5% journals of her/his research field. * Is an inspiring team player and can work independently. * Supervises master students. * Strives for excellence in research and provides a contribution to the international research reputation of LBEG.

Education The candidate has the option to take part in the teaching program at the KU Leuven to a limited extent.

Service Scientific, societal and internal services are an integral part of the assignment.

Requirements * PhD in Marine Science, Oceanography, Molecular Ecology or related disciplines. * Intermediate to excellent programming skills. * Experience with polar environments is an asset. * An indisputable research integrity. * The quality of your research is proven by publications in leading international top 5% journals. * International research experience is an important advantage. * Your spoken and written English is excellent. The official administrative language at KU Leuven is Dutch.

Offer * We offer full-time employment in an intellectually challenging environment. KU Leuven is a research-intensive, internationally oriented university that carries out both fundamental and applied scientific research. Our university is highly inter- and multidisciplinary focused and strives for international excellence. * We offer

state-of-the-art access to data banks, statistical expertise and computational facilities. * KU Leuven offers a remuneration according to the grade of postdoctoral fellow, and free public transport or a bike allowance between home/work. * You will work in Leuven, a historic, dynamic, sustainable and vibrant city located in the heart of Belgium, within twenty minutes from Brussels. Leuven is located less than two hours from Paris, London and Amsterdam.

Interested? More information on the content of the job can be obtained from prof. Filip Volckaert (KU Leuven) at phone +32 16 32 39 72 and email filip.volckaert@kuleuven.be. The website of KU Leuven - LBEG is <https://bio.kuleuven.be/eeb/lbeg>. Application format and deadline Please apply no later than March 31, 2022 via the online application tool (KU Leuven academic jobs - <https://www.kuleuven.be/personeel/jobsite/jobs/60097059>). We request a motivation letter, CV, summary of your PhD thesis, a short commentary on your 5 most significant publications, evidence of accomplished skills

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Lausanne Switzerland ArthropodEvolution

Postdoctoral position on comparative evolutionary genomics of arthropods

The group of Prof. Waterhouse proposes a Postdoctoral position in arthropod genomics and biodiversity focused on bioinformatics methods development and applications to understand the evolution of diversity at molecular, genomic, and/or organismal levels at the Department of Ecology and Evolution, University of Lausanne, Switzerland. The postdoc will join a dynamic team working mainly on modelling gene evolution - gene function interactions through evolutionary and functional genomics in insects and other arthropods.

We are seeking to recruit a recent* PhD graduate in informatics, bioinformatics, computational biology, evolutionary genomics, or related fields. The candidate's qualifications and experience should equip them with the ability to innovatively develop and apply

data analysis workflows to explore the evolution of arthropod biodiversity. The candidate will take on the leadership of a project in the group that has to date focused on developing methods to quantify how genes and genomes evolve and will also involve assessing how such changes are linked to functional and organismal diversity (For example see: <https://academic.oup.com/mbe/article/39/1/msab352/6459179> and <https://genomebiology.biomedcentral.com/articles/10.1186/s13059-019-1925-7>). She or he will thus need to be familiar with programming in Python, ideally also with experience of workflow development (e.g. Snakemake), knowledge of working in R is also a plus. No prior knowledge of arthropod biology or taxonomy is required, just an enthusiasm for genomics, evolution, biodiversity, and a curiosity to learn. The candidate should have a strong ability to work as part of a team as the project is inherently collaborative in nature. * Funding rules require the candidate to have obtained their PhD no more than 40 months prior to the start date.

The link for the UNIL jobs portal: <https://bit.ly/-3GvSRji> DEADLINE: 31.03.2022

Please note that the SNSF defines the position of 'Postdoc' as no more than five years since obtaining a doctorate (i.e. since the date of the doctoral thesis defence).

Informal enquiries can in the meantime be made by writing to Prof. Robert Waterhouse, Robert.Waterhouse@unil.ch

\\ Robert M. Waterhouse 00o- www.rmwaterhouse.org
 "" SNF Prof & SIB Group Leader Univ. Lausanne +41 21 692 41 05 @rmwaterhouse < <https://twitter.com/-rmwaterhouse> > ORCiD < <https://orcid.org/0000-0003-4199-9052> >

Robert Waterhouse <robert.waterhouse@unil.ch>

London EvolutionDNAMethylation

An open post-doctoral position in the laboratory of Dr. Alex de Mendoza at Queen Mary University of London (United Kingdom). This is a European Research Council funded position under the project METHYLEVOL, aimed at understanding the evolution of DNA methylation in animals and other eukaryotes. This position is for 2 years, with expected extensions up to 4 years.

For this position previous experience in molecular biology and developmental biology techniques is highly desirable, including genetic manipulation, injection and

rearing aquatic organisms (e.g. cnidarians, zebrafish, marine invertebrates). Alternatively, experience in functional genomic techniques is also welcome (e.g. ATAC-seq, bisulfite sequencing). Some bioinformatics experience would be a plus, but we can train the candidates and offer ample support on this aspect. Plenty of opportunities for gaining expertise in functional genomics.

The goal is to understand the role of DNA methylation in invertebrates, following previous work of the laboratory that has challenged long held expectations in the field, see latest publications here: <https://www.demendozalab.com/publications> The link to the position is:

<https://www.qmul.ac.uk/jobs/vacancies/items/-5631.html> Applications close on March 24, but feel free to get in touch if you cannot make the deadline. Start could be from May-June 2021 onwards.

All you will need is your CV and a cover letter. No nationality restrictions.

Potential candidates are encouraged to get in touch with a.demendozasoler@qmul.ac.uk to discuss your interest in the post and the project.

Alexandre de Mendoza Soler
<a.demendozasoler@qmul.ac.uk>

Madrid EvolBioengineering

Postdoc in evolutionary bioengineering at the Polytechnic University of Madrid

We are seeking an enthusiastic postdoctoral researcher who is passionate about understanding and engineering genetic circuits in bacterial cells. Within this project, you will optimise existing genetic parts—to work on different cellular hosts that is, to shape their context dependency behavior. You will be using directed evolution methods to find robust and efficient parts and setting up modular cloning techniques for their high-throughput assembly into genetic circuits. The project you—will join aims at applying synthetic biology approaches to agriculture, for which developing reliable genetic circuits in environmental species is at the core.—

The candidate will have a doctoral degree in synthetic biology, bioengineering, directed evolution or similar. The position requires expertise in molecular biology methods, gene editing, assembly protocols and testing—procedures (e.g. flow cytometry, RNA quantification,

etc). Knowledge about laboratory automation, and the use of automation facilities, would be a bonus. You will have expertise in working with bacterial—species, preferably *Pseudomonas protegens*. There will be ample opportunity for career development, including the possibility to co-supervise students, apply for funding, engage in teaching and present your work on international conferences. The position offers a competitive salary according to experience with all the benefits of the Spanish National Social Security System, comprising generous sick/maternity/paternity leaves and health, unemployment and retirement insurances. The post is available from September 2022 (or earlier) for 3 years. The candidate will join the Centre for Plant Biotechnology and Genomics (CBGP), a mixed research centre supported by the Polytechnic University of Madrid (UPM) and the National Research Council (CSIC). You will join an inter-laboratory project and will be expected to liaise with the groups of Elena Caro,—Alejandro Couce and—Angel Goñi-Moreno.—

How to apply: Interested candidates please send a single PDF file with a motivation letter and a CV including publication list to Angel Goñi-Moreno (angel.goni@upm.es). Candidates short-listed for interview will be additionally requested to provide the names and complete contact information of two references. The post will be open until a suitable candidate is found—early applications are thus encouraged. Please include the word “EMMA” in the subject line.

Dr Alejandro Couce Evolutionary Systems Genetics of Microbes Lab Centre for Plant Biotechnology and Genomics (CBGP, UPM-INIA) Polytechnic University of Madrid, Spain

phone: +34 910679195 | website:
short.upm.es/EvolSysGen

A Couce <a.couce@upm.es>

MichiganStateU InsectEvolution

PostDoctoral Position in Insect Ecology and Science Education

Applications are being accepted for a postdoctoral research position to work on an NSF-Funded project in urban moth ecology and insect science education. The project aims to bring moth biology research into elementary and middle schools, and to help students conduct research projects so they can better understand the role

and positioning of moths in urban habitats. The research associate will work with Dr. Peter White and Dr. David Stroupe at Michigan State University. This is intended to be a three-year position, pending successful annual performance reviews after the each year. The start date is flexible, but ideally will commence on May 16th, 2022 and will be “in-person”

Overview: Moths are a key taxonomic group across urban and peri-urban landscapes. Along with being key components of local food webs, they can also play a role as nocturnal pollinators. In addition to their positive impacts, a handful of species are capable of causing ecological and agricultural damage, often as defoliators in their larval stage. Despite how ubiquitous moths are across a wide array of habitat types, and the impactful role they can play in ecosystems, they often go unnoticed by the general public. In this project we aspire to bring the field of moth biology into the public sphere by providing opportunities for school-aged children to engage in self-directed moth ecology research projects. We will design and implement citizen-science-like materials to help students (i) learn about the ecological importance of moths, (ii) construct their own homemade moth traps, (iii) decide on what scientific questions they would like to investigate, (iv) conduct their own moth trapping, (v) explore their trapping data to make conclusions about their scientific questions and (vi) disseminate their results to the local school community, and online via our Moth-Ed project website. We will partner with a set of teachers to co-develop our curriculum and to run curriculum testing.

From an educational-perspective, there are few opportunities in elementary and middle-school for students to engage in authentic scientific research. In part, this is due to the structure of elementary and middle-school; teachers often have a wide spectrum of content to teach across many subject areas and can only dedicate a finite amount of time to science. Another significant limiting factor, however, is the dearth of ready-to-implement science-focused curricular materials that provide guidance around helping students participate in science practices. We often think of school-aged children as being ill-equipped to conceive of and carry-out their own scientific investigations, and yet, we are quick to recognize their creativity and outside-of-the-box thinking. Here, we aim push the envelope and deliberately position students as scientists, giving them agency to pose their own questions and make their own discoveries.

Position Responsibilities: The postdoc will work closely with the project team on the design, development, piloting and testing of user-friendly insect surveying research protocols. The postdoc may also be involved with designing and piloting an automated moth-identification pro-

gram, using machine-learning techniques. The postdoc may play a role in synthesizing student moth-capture data and disseminating aggregate data in peer-reviewed publications. We expect scholarly publications to arise from this project both in the realm of insect-ecology, and in the realm of K-5 education research. Wherever possible, the postdoc will participate in manuscript planning, data analysis, drafting manuscript sections, submitting to appropriate journals, attending professional meetings, and responding to manuscript reviewer comments.

Equal Employment Opportunity Statement: All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, citizenship, age, disability or protected veteran status.

Required Degree: Doctorate in biology, entomology, biology education, or education

Minimum Requirements: - Excellent writing skills and a record of producing peer-reviewed publications. - Experience with inclusive and constructivist teaching pedagogies. - A set of skills that would help in managing and coordinating a study at a national scale. - An ability to work with and handle live and dead insects, particularly moths. - Experience identifying insect specimens. - Knowledge of html and use of web-based technologies.

Additional Desired Qualifications: - A knowledge of the Next Generation Science Standards and K-12 biology curriculum, particularly relating to insect biology and/or ecological processes. - Experience working with K-12 teachers. - Experience developing training workshops. - An understanding of agency-based education approaches.

Required Application Materials:

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MuensterU EvolutionaryPsychiatry

Research Associate (gn*) Job ID: 3679 (*gn=gender neutral) We are looking for you to join the Mental Health Clinic as soon as possible on a project-limited basis until 10/31/2024

Full-time, remuneration according to TV-L E13, depending on qualifications and assignment of duties.

The Universities of Bielefeld and Münster have set themselves the goal of empirically investigating the topic of individualization in changing environments in an interdisciplinary discourse between life sciences, humanities and social sciences (project InChangE). To this end, researchers from biology, health sciences, philosophy, psychology, medicine and psychiatry, economics and sociology are working together and are funded by the state of North Rhine-Westphalia. We are looking for creative and curious postdocs to support us in this very interdisciplinary endeavor. One of the 6 projects relates to genetic, epigenetic, and immunological predisposition factors as well as diverse factors of social environments and behaviors through bioinformatics modeling. A major goal of the specific research project related to this advertised position is to decipher how these risk factors contribute to the development of mental illnesses such as schizophrenia, bipolar disorder, and depression.

Your area of responsibility: Focus of the job: data analysis of complex datasets within an evolutionary framework, in close cooperation with the Laboratory for Functional Genomics in Psychiatry (Prof. Ziller). Support in the area of multimodal data analysis of genetic, epigenetic and transcriptome data from patients. Obtaining individual-based data from animal-based studies from other research groups involved in the project.

Desirable qualifications and experience: Completed studies in the natural sciences as well as a PhD; Motivation; Good overview of basic biology, especially immunobiology; Experience in the field of data analysis; Experience in basic biological research on mental disorders is an advantage

We offer you to work at the Department of Mental Health in an interdisciplinary team of psychiatrists, biologists and bioinformaticians across different research groups. One research focus is to better understand the role of the immune system in the development and progression of mental illness.

If you have any questions, please contact Prof. Bernhard Baune and/or Prof. Joachim Kurtz: Bernhard.Baune@ukmuenster.de; joachim.kurtz@uni-muenster.de.

We are looking forward to receiving your application via our Karriportal (<https://career5.successfactors.eu/-careers?company=universi19>) in German or in English (including the above mentioned reference number) with all relevant information (cover letter with a short description of your previous work as well as applied methods and a complete CV) until 16.03.2022.

Muenster University Hospital is one of the leading hospitals in Germany. Such a position is not only achieved through size and medical success. The commitment of each individual is important. We need your commitment to be able to do great things for our patients, even in small ways. To this end, we offer you many opportunities so that you yourself can continue to grow.

UKM supports the compatibility of work and family and has therefore been certified as a family-conscious company since 2010. In principle, there is the possibility of part-time employment. Applications from women are welcomed; within the framework of legal regulations, women are given preference in hiring. Severely disabled persons will be given special consideration if they are equally qualified.

Prof. Dr. Joachim Kurtz

University of Muenster Institute for Evolution and Biodiversity Animal Evolutionary Ecology Group Huefferstr. 1, 48149 Muenster, Germany

Phone (secretary): + 49 251 83 21638 Phone (direct): + 49 251 83 24661 Fax: + 49 251 83 24668 Room: 109 joachim.kurtz@uni-muenster.de <http://www.uni-muenster.de/Evolution/animalevolecol/kurtz.shtml> DFG Research Training Group GRK 2220 EvoPAD <https://www.uni-muenster.de/EvoPAD/> DFG SFB-TRR 212 NC3 https://www.uni-bielefeld.de/fakultaeten/biologie/forschung/verbuende/sfb_nc3/

“Kurtz, Joachim” <joachim.kurtz@uni-muenster.de>
“Kurtz, Joachim” <joachim.kurtz@uni-muenster.de>

New York City Human Population Genetics

The Raj Laboratory at the Albert Einstein College of Medicine in New York city is recruiting several motivated postdoctoral fellows with interest and expertise in any of the following areas: (1) Population and evolutionary genetics (2) genome-wide association studies and polygenic risk scores in populations of diverse ancestries, in large-scale datasets (3) Gene-environment interactions (4) Cancer and public health genetics (5) Bioinformatics / Machine learning.

Research focus: Our lab investigates the contribution of common and rare genetic variation on phenotypic variation in diverse global populations. We study how genetics and gene-environment interactions shape individual and population differences in disease risk and

outcome. We use population, quantitative, evolutionary and functional genetics approaches to answer broad questions in this area, with an interest in common complex diseases as well as cancer. We also have a wet lab to study the functional consequences of genetic variation. We have several collaborative projects that use large-scale genetic data, such as the UK Biobank, TOPMED, AllofUs and the HCHS/Study of Latinos, as well as to study the functional impact of genetic variation. We are particularly interested in research questions that serve the diverse community of our catchment area, the most diverse county in the United States, the Bronx, NY.

Lab website: For more details on our lab and research please visit www.srirajlab.com or <https://einsteinmed.edu/faculty/16979/srilakshmi-raj/>. Application Requirements:

1. Ph.D. or M.D. or equivalent degree, and a publications record from training.

1. Prior research experience in bioinformatics and genetics, quantitative and computational skills, and experience with large-scale genetic and health datasets (e.g. Biobanks). Experience with population genetics is strongly preferred.

1. An interest in understanding the genetic basis of population health disparities is strongly preferred.

To apply: Please email your CV and a short cover letter summarizing your experience, along with the contact information of two references to: srilakshmi.raj@einsteinmed.org addressed to Srilakshmi Raj Ph.D., Assistant Professor of Genetics, Department of Genetics, Albert Einstein College of Medicine, New York, NY

Research environment: The Albert Einstein College of Medicine (<https://www.einsteinmed.edu>) provides a highly engaging, interactive and productive academic environment for research scientists and scientists in training. Prospective members will enjoy joint weekly lab meetings within the Department of Genetics, and will engage in work-in-progress seminars, journal clubs, trainee events, workshops and other professional and social events within the Department of Genetics, the Einstein Cancer center and throughout the school. The Price Center for Genetic and Translational Medicine, where our lab is situated, is a modern research building in the heart of the campus with state-of-the-art research facilities and amenities.

Lab Location: The Einstein College of Medicine is located in a residential area in the northeast corner of New York City with an easy commute to Manhattan and the suburbs of Westchester County. We offer competitive salary and benefit packages with optional postdoctoral

housing on campus.

The Scientific Community: Among the top tier of the nation's medical schools to receive NIH funding, Albert Einstein College of Medicine offers a highly interactive and stimulating academic environment for scientists in training. Additionally, candidate's research will benefit from the highly interactive environment within the Gottesman Institute for Stem Cell and Regenerative Medicine, the Department of Genetics, Developmental and Molecular Biology, the Cancer Center and throughout the college. We are located in a pleasant residential area in the northeast corner of New York City with an easy commute to Manhattan and the suburbs of Westchester County. We offer competitive salary and benefit packages with optional postdoctoral housing on campus.

Srilakshmi Raj <srilakshmi.raj@einsteinmed.edu>

New York Dept Health Lyme Dis Func Evolution

Postdoctoral positions in Lyme disease and other tick-borne diseases

Wadsworth Center, New York State Department of Health Albany, New York, USA

The Lin lab at the Wadsworth Center of the New York State Department of Health is recruiting postdoctoral fellows to study host-pathogen interactions of Lyme disease and other tick-borne diseases in multi-institutional, collaborative projects. We are particularly interested in defining the mechanisms of transmission and persistence by Lyme disease bacteria and other tick-borne pathogens in reservoir host animals. Prior experience in tackling host-pathogen interactions using any of the following approaches/fields is desired: bacterial genetics, host immune responses, phylogenomics, or vector biology.

Representative publications of our group <https://tinyurl.com/yipinlinpubs> include: Lin et al. Proc. Biol. Sci. 2022; Hart et al. PLoS Pathog. 2021; Lin et al. Trends Parasitology 2020; Marcinkiewicz et al. Infect. Immun. 2020; Lin et al. ACS Infect Dis. 2020; Tufts et al. Mol. Microbiol. 2019; Marcinkiewicz et al. Cell Microbiol. 2019; Hart et al. PLoS Pathog. 2018; Hart et al. Ticks Tick Borne Dis. 2018.

The Lin lab values diversity and inclusivity, and fosters an academic/research environment where professional growth and distinct career choices are appreciated. Mo-

tivated and ingenious trainees are encouraged to pursue independent projects. The Wadsworth Center, located in Albany, NY, is the country's most comprehensive state public health laboratory, with a staff of 700 that includes over 100 doctoral-level scientists. The Center provides a dynamic research atmosphere focused on infectious, genetic, and environmental diseases and their impact on human health.

To apply: Please submit a CV (up to 3 pages); a letter summarizing research interests, experience, and goals (up to 1 page); and the names and contact information of three references to: Dr. Yi-Pin Lin PhD, Research Scientist IV, E-mail: Yi-Pin.Lin@health.ny.gov

Lab website: <https://www.wadsworth.org/-research/laboratories/yi-pin/lin-laboratory> & <https://www.albany.edu/sph/faculty/yi-pin-lin>
koloko@amnh.org

New York University Abu Dhabi Adaptive Evolution

Post-doctoral Associate - Adaptive evolution in invasive species - New York University Abu Dhabi (Center for Genomics and Systems Biology)

Description

The New York University Abu Dhabi Center for Genomics and Systems Biology (NYUAD-CGSB) is a well established research cluster focused on the use of global or "systems" level approaches to address the organization and function of biological systems at multiple levels: cells, organisms, populations and ecosystems. The NYUAD-CGSB is seeking a Post-doctoral Associate to conduct research on adaptive evolution in invasive species, using the red palm weevil (*Rhynchophorus ferrugineus*) as a model system. The red palm weevil is a pest of the date palm and it has a negative effect on the cultivation of all species of palms across the globe. This position will fall under the supervision of NYUAD-CGSB's director, Dr. Stephane Boissinot, Professor of Biology and P.I. of the NYUAD Evolutionary Genomics Laboratory.

The Post-Doctoral Researcher will combine -omics approaches and field experiments to (1) determine the role of population structure, demography and hybridization in shaping genetic diversity in invasive and native populations of weevils; (2) determine the genetic bases of adaptation in invasive populations; (3) link

genotypes and phenotypes across levels of organization among populations adapted to different habitats. Candidates must have a strong background in various -omics approaches (genomics, transcriptomics, metabolomics, metagenomics). Since data and samples will be collected in populations from both the invasive (Middle-East, Europe, South Asia) and native (South East Asia) ranges, candidates must have an interest in field work and a taste for travel.

The NYUAD-CGSB has access to state of the art equipment for sequencing, microscopy and high-throughput screening and well-equipped core facilities for conducting any kind of chemical or biological analyses. The candidate will be part of a team of 5 Post-doctoral Associates in the research group of Prof. Boissinot, who are working on a diversity of research projects focused around adaptive evolution and the evolution of genomic structure and function.

To be successful in this role you MUST possess the following to be considered:

PhD in Biology from an accredited university (completed on or before 1 September, 2022) A strong publication record with first-author experience Experience in -omics approaches Expertise in population genetics Strong interpersonal skills with the ability to liaise with external stakeholders, collaborators and students.

Previous experience in the following is DESIRABLE but not essential:

Experience in working with insects

Experience in insect physiology Experience in field research Ability to lead and conduct multiple, possibly divergent, research projects simultaneously Mentoring of undergraduate students in a research setting Ability to plan, allocate, and monitor research budgets for projects

This position will begin September 01, 2022 as a two-year contract, renewable depending on funding availability and performance. Note that a later starting date is possible. The role comes with an attractive salary and benefits package, including housing, medical insurance, annual home leave allowance and (if relevant) dependent school fees; salaries are tax free in the UAE. Questions regarding specifics for this position may be directed to tostephane.boissinot@nyu.edu. All applications MUST be submitted through Interfolio (<https://apply.interfolio.com/103942>). Applications should include a 1-2 page cover letter that must respond to the required and desired experiences described above, and a copy of a current CV; any publications listed in the CV should have DOI or hyperlinks provided. The cover letter should also describe the relevance of the

candidate's experience for the position.

The deadline for application is Sunday, 15 May, 2022, at 23:59 EST. Review of applications will commence thereafter, with interviews conducted in early June. Only those applicants selected for interview will be contacted.

About the CGSB

The Center for Genomics and Systems Biology (CGSB) at New York University Abu Dhabi was established to provide a nexus for cutting-edge life sciences research in the United Arab Emirates, with world-class facilities and resources to promote innovative advances in genomics and systems biology. The Center fosters and enhances the research and training missions of NYUAD, where undergraduate students, graduate students, and postdoctoral scientists engage in research across disciplines, facilitated by advanced instrumentation and computational support for high-throughput data collection, visualization, and analysis. The NYUAD-CGSB operates in partnership with its sister center, NYU Biology's CGSB in New York, in an open organizational framework that enables transformative collaborative

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New Zealand Stick Insect Genomics

Postdoctoral Fellow in New Zealand stick insect genomics

We are seeking an enthusiastic and driven Postdoctoral Fellow to join a research project investigating the genomics of successful asexual reproduction in stick insects.

Theory predicts that asexual species should rapidly go extinct, yet they are ubiquitous in nature and sometimes long-lived. Previous research looking for signs of 'genomic meltdown' in asexual species has found little evidence of this occurring. We hypothesize that asexual species have used a suite of strategies to adapt their genomes to the challenges of asexual reproduction. Applying comparative genomic methods to New Zealand asexual and sexual stick insects, we hope to reveal what these adaptations are and how they have evolved. Our research will address key questions on the evolution of different reproductive strategies.

This project will include the collection and analysis of genomic data to test our key hypotheses. This will include whole genomes, resequencing, transcriptomic and epigenomic data. The assembly of multiple, high-quality genomes will be an important first step in the project. These genomes will then be used to investigate the activity of transposable elements in sexual and asexual lineages, in conjunction with mRNA and microRNA sequencing. Epigenomic methods will be used to examine regulation of gene expression.

The Postdoctoral Fellow will be responsible for participating in the design of experiments to achieve the goals of the project. These responsibilities will also include sample management, DNA and RNA extraction and arranging sequencing. Data management and the implementation of bioinformatics pipelines will be important component of the position. The Postdoctoral Fellow will be expected to lead the writing of scientific publications and present findings at conferences. Regular communication and collaboration with the two project Associate Investigators (Julie Blommaert and Palacios-Gimenez) is expected. The project includes funding to travel to Friedrich-Schiller-Universität, Jena, Germany, to collaborate with Prof Palacios-Gimenez. The successful applicant will also be expected to co-supervise a PhD student, involved in other aspects of the project.

This position is full time for three years and is based at our Auckland site. Project funding is from the Royal Society of New Zealand Marsden Fund.

You will possess a PhD in genomics, molecular biology or bioinformatics, at least some refereed publications, inclusive of lead authorship. Ideally you will be a flexible, pragmatic, self starter, able and enthusiastic to manage the collection and analysis of data to achieve project goals.

To apply follow this link:

<https://careers.sciencenewzealand.org/landcare-research/jobdetails/ajid/cWIV9/Postdoctoral-Fellow-in-Insect-Genomics,46222.html> Thomas Buckley Research Leader, Systematics Manaaki Whenua - Landcare Research Professor, University of Auckland +64 9 574 4116 buckleyt@landcareresearch.co.nz

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NortheasternU MarineBivalveEvolution

Postdoc: NortheasternU_Symbiont-host interaction in marine bivalves

The Distel Laboratory < <https://cos.northeastern.edu/people/dan-distel-2/> > at the Northeastern University Marine Science Center < <https://cos.northeastern.edu/marinescience> > seeks a postdoctoral research scientist to take a leading role in research exploring the interactions between wood-eating teredinid bivalves (shipworms) and their intracellular cellulolytic bacterial endosymbionts. Shipworms provide an extraordinary model system for investigating symbiont acquisition and intracellular infection as both the hosts and their symbionts can be cultured in the laboratory. Their symbionts are a rich source of secondary metabolites, including antimicrobials and antibiotics that likely play a key role in shaping and defending their microbiomes. They are also the only marine animals known to grow and reproduce with wood as a sole food source. Hence the system has relevance to symbiotic and pathogenic infection, drug discovery, microbial community assembly, lignocellulose degradation and biofuel/biomass conversion. The current project aims to advance understanding of symbiont acquisition and host-symbiont interaction at molecular, physiological, and ultrastructural levels under funding from the Gordon and Betty Moore Foundation < [https://www.moore.org/article-detail?newsUrlName=the-moore-foundation-invests-\\$140-million-to-explore-aquatic-symbioses%3e](https://www.moore.org/article-detail?newsUrlName=the-moore-foundation-invests-$140-million-to-explore-aquatic-symbioses%3e) >. The Distel lab is located at Northeastern University's Marine Science Center in Nahant, Massachusetts, on Boston's North Shore. The anticipated term of the appointment is 1.5 years with possibility of extension based on performance. The appointment is anticipated to begin in the first quarter of 2022.

Responsibilities: The successful candidate will utilize molecular techniques to (1) explore host-symbiont interactions in the shipworm symbiotic model system, (2) perform laboratory and field research, (3) lead and assist with the preparation of research papers and grant proposals, (4) assist with overall management of the Distel Laboratory and (5) help supervise and train students. Ability to SCUBA dive within the AAUS framework is desirable but not required.

Qualifications: A PhD or equivalent in microbiology, bacterial molecular biology, or a related biological discipline is required. Candidates must be able to undertake substantial full-time research and scholarship under the supervision of a senior scholar and must be knowledgeable in one or more of the following disciplines: molecular biology, genomics, bioinformatics, microbiology, invertebrate zoology, symbiosis.

Preferred experience: Prior experience in the following areas will be especially valuable: bacterial genetic engineering, genomic and metagenomic sequencing, comparative genomic analysis, in situ hybridization and fluorescence microscopy. Knowledge of lignocellulose degradation (carbohydrate-active enzyme activity and expression) is desirable but not required.

Position Type Research

Additional Information Northeastern University is an equal opportunity employer, seeking to recruit and support a broadly diverse community of faculty and staff. Northeastern values and celebrates diversity in all its forms and strives to foster an inclusive culture built on respect that affirms inter-group relations and builds cohesion. All qualified applicants are encouraged to apply and will receive consideration for employment without regard to race, religion, color, national origin, age, sex, sexual orientation, disability status, or any other characteristic protected by applicable law.

To learn more about Northeastern University's commitment and support of diversity and inclusion, please see www.northeastern.edu/diversity To apply, please go to: https://northeastern.wd1.myworkdayjobs.com/en-US/careers/details/Postdoctoral-Research-Associate_R102480?locations=299650046df20101f1b8ea205a9c0000 Or

<https://www.indeed.com/jobs?q=postdoctoral&l=Nahant%2C%20MA&vjk=121898054d27224e> Daniel L. Distel, PhD (He, Him, His) Director Ocean Genome Legacy Northeastern University Marine Science Center 430 Nahant Rd Nahant, MA 01908 (617) 373-2576 d.distel@northeastern.edu <https://cos.northeastern.edu/people/dan-distel-2/> "Distel, Dan" <d.distel@northeastern.edu>

OriginsInst McMasterU ExptOriginsOfLife

Postdoctoral Research Position in Experimental Astrobiology and the Origin of Life

McMaster University is located on the Haudenosaunee and Mississauga Nations traditional territories and within the lands protected by the Dish with One Spoon wampum agreement.

Description

The Origins Institute at McMaster University in Hamilton, Ontario, Canada invites applications for a postdoctoral researcher position in experimental astrobiology and the origin of life starting July 1, 2022.

The institute currently includes faculty, postdoctoral researchers, and graduate students from the Faculties of Science, Health Sciences, and Humanities. The institute runs a Collaborative Graduate Program in Astrobiology, involving 5 academic units and 6 graduate programs. Facilities related to astrobiology research include the state-of-the-art Origin of Life Laboratory, featuring the unique Planetary Simulator, which provides an environment in which temperature, humidity, gas-composition, pressure, and radiation can be controlled. Additional origin of life infrastructure on campus and in member laboratories includes a high-performance computing cluster (SHARCNet), a Gas Chromatograph Isotope Ratio Mass Spectrometer, and a High Performance Liquid Chromatograph coupled to single quad MS and fluorescence detector.

Candidates must have completed a Ph.D. in a relevant discipline by the start date for the appointment. They must be able to demonstrate a vibrant research program in astrobiology and the origin of life defined broadly. They ideally possess experimental skills relevant to prebiotic organic chemistry, nucleic acid chemistry, biophysics & lipid membrane research, or in vitro molecular evolution and would be able to use the Origin of Life Laboratory and Planetary Simulator. They should have the potential to make substantive service contributions to the Origins Institute and university communities and contribute actively to their equity, diversity, and inclusivity goals. The ability to mentor students at the graduate and undergraduate levels to help foster inter-laboratory research and communicate effectively for public outreach are desirable traits. The

position is funded fully for two years with the possibility for extension.

McMaster University is a globally renowned institution for higher learning and a research community committed to advancing human and societal health and well-being. Our focus on collaboratively exchanging ideas and approaches uniquely positions us to pioneer groundbreaking solutions to real-world problems leading to a Brighter World. The Faculty of Science works to create global impact by advancing scientific discovery and knowledge and promoting greater understanding. Our innovative, interdisciplinary approach generates new methods and insights, results, and lasting change.

Commitment to Inclusive Excellence

The diversity in our workforce is the core for our innovation and creativity and strengthens our research and teaching excellence. In keeping with its 'Building an Inclusive Community with a Shared Purpose,' McMaster University strives to embody as values respect, collaboration, and diversity, and has committed completely to employment equity.

The University seeks qualified candidates who share our commitment to equity and inclusion, who will contribute to diversifying ideas and perspectives, and especially welcomes applications from women; First Nations, Métis, and Inuit Peoples; members in racialised communities; persons with disabilities, including mental illness; and persons who identify as 2SLGBTQ+.

We invite all applicants to complete a brief Diversity Survey, which takes approximately two minutes to complete, through the McMaster University application submission portal. All questions are voluntary, with an option to decline to answer. All information collected is confidential and will be used to support efforts to broaden future applicant pool diversity and to promote a fair, equitable, and inclusive talent acquisition process.

Job applicants requiring accommodation to participate in the hiring process should contact the Office of the Dean, Faculty of Science at baileyd@mcmaster.ca to communicate accommodation needs.

How to Apply

Complete applications must be input online at <https://hr.mcmaster.ca/careers/currentopportunities/> (Faculty Positions, Job 44254) to the attention of J. R. Stone, McMaster University, 1280 Main Street West, Hamilton, Ontario, L8S 4K1.

A complete application comprises: a cover letter (including a statement regarding whether the applicant has Canadian citizenship/permanent resident status); a current Curriculum Vitae, including publications au-

thored or coauthored and presentations delivered by the applicant; a research interests statement (500-word maximum); a list providing contact information for three individuals who would be

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

Paris SexChromosomeGenomics

Postdoc positions in evolutionary genomics of sex chromosomes in Paris Saclay, France

The Giraud lab in Paris Saclay University, France, is searching for two postdocs with experience in evolutionary genomics and bioinformatics to join us on a project funded by an ERC advanced grant on the evolution of sex chromosomes. We have shown that chromosomes involved in sexual compatibility in fungi lacking male and female functions can display stepwise suppression of recombination beyond mating-compatibility genes (Branco et al. PNAS 2017, Branco et al. Nat Com 2018). The post-doc fellow will use high-quality genome assemblies, including polymorphism data, for studying the patterns of recombination suppression in sex chromosomes in various fungi and other organisms and for identifying the evolutionary causes for stepwise recombination suppression. The project can also involve theoretical modeling or experiments depending on the post-doc fellow interests.

Applicants should possess demonstrated experience in research topics related to evolutionary genomics, bioinformatics and genome evolution.

Applicants should have excellent bioinformatics skills related to large genomic datasets, as well as knowledge in evolution, population and/or comparative genomics. Experience with pan-genome and/or ancient recombination graphs will be considered a plus. Great emphasis will be placed on personal qualities such as creativity, motivation and ability to work in a team. Candidates should also have a good ability to conduct independent research, take initiative, ask pertinent scientific questions, and work collaboratively. Female scientists are especially encouraged to apply. The starting date could be optimally around September 2022 but is flexible.

The Department of Ecology, Systematics and Evolution

in Paris Saclay University has about 130 employees and is active within research areas focused on ecology and evolution, providing an excellent scientific environment. It also offers state-of-the-art infrastructure, including plant and fungus growth facilities as well as equipment for molecular biology and bioinformatics. The department is moving in a new building at the IDEEV (Institute for Diversity, Ecology and Evolution) together with two other departments in the field of ecology and evolution. The Paris Saclay University benefits both from the proximity of Paris and from a nice environment outside Paris.

The initial appointment will be for one year, with the possibility for renewal for up to three years. The salary depends on experience. The starting date is flexible. If interested, please contact Tatiana Giraud tatiana.giraud@universite-paris-saclay.fr. Provide a CV and a brief statement of research interests and qualifications, and arrange to have two letters of recommendation sent.

Tatiana Giraud

Directrice de recherches CNRS Professeur au Collège de France Membre de l'académie des sciences
Bâtiment 360, 360 rue du Doyen André Guignier
Université Paris-Saclay 91400 Orsay France

phone: +33 1 69 15 56 69 + 33 6 34 64 45 14 fax: +33 1 69 15 46 97

Avoid $\frac{1}{2}$ REPLY ALL $\frac{1}{2}$: 1 e-mail 1 Mo sent to 10 persons = 190 g CO₂ (1 km by car) , 33 emails per day (daily average number of emails sent per pers.) = 33 km (source ADEME)

English: <https://www.esu-psud.fr/en/team-members/tatiana-giraud/> Français: <https://www.esu-psud.fr/personnel/tatiana-giraud/>
@GenEcoEvo <http://www.esu-psud.fr/> Tatiana Giraud <tatiana.giraud@u-psud.fr> Tatiana Giraud <tatiana.giraud@u-psud.fr>

PrincetonU HummingbirdColorVision

The Department of Ecology and Evolutionary Biology at Princeton University invites applications for a postdoctoral research associate or more senior research position to work in the Stoddard Lab to investigate hummingbird color vision and sensory ecology. The postdoctoral research associate will design and conduct color vision

experiments in the field, with fieldwork occurring for several months of the year (primarily in late spring and summer). Currently fieldwork takes place at the Rocky Mountain Biological Laboratory in Gothic, Colorado. The ideal candidate will have experience with animal color vision/psychophysics, behavioral experiments, the design of optical equipment (for example, LEDs, Arduino), RFID equipment, and field biology. The postdoctoral research associate will also be responsible for analyzing data obtained from behavioral experiments. Advanced programming skills (in R, MATLAB, or Python, for example) are required, and the ideal candidate will have a strong background in quantitative methods and statistics (including Bayesian statistics). Finally, the postdoctoral research associate will work closely with other members of the lab and with collaborators (including molecular biologists and geneticists) and will be responsible for leading a small team of researchers in the field. Thus, we seek a candidate with a strong interest in interdisciplinary, collaborative science who is also capable of taking on a leadership role in a field setting. The target start date is March, April or May 2022 but there is some flexibility.

The Stoddard Lab uses an interdisciplinary approach to study animal coloration and morphology, with a focus on birds and bird eggs. For recent examples of research conducted by the Stoddard Lab, visit www.marycstoddard.com. Required qualifications:

- * A PhD in biology or a related field
- * Expertise in animal behavior, visual ecology, fieldwork, statistics, and computer programming
- * A very strong quantitative background
- * Excellent written and oral communication skills, shown by a strong publication record and presentations at conferences
- * Excellent organizational, project management, data analysis and data management skills
- * Ability to conduct fieldwork for several months of the year and to lead a small team of researchers
- * A valid driver's license (some driving is required during fieldwork)
- * A strong interest in conducting interdisciplinary work as part of a collaborative team
- * A strong interest in mentoring undergraduate and graduate students and broadening participation in STEM

Strongly recommended qualifications:

- * Previous research on birds (especially hummingbirds), color vision and psychophysics experiments
- * Experience with LEDs, optical equipment, spectrophotometers, cameras, animal tracking software

The appointment is initially for one year, with the possibility of renewal based on satisfactory performance and funding. Salary is competitive and commensurate with experience, and benefits are included. This position will be open until filled. This position is subject to the

University's background-check policy.

Applicants must apply online at <https://www.princeton.edu/acad-positions/position/24841> and include a curriculum vitae, a one-page statement of research experience and interests, and a cover letter that includes names and contact information of three references.

Princeton University is an equal opportunity/affirmative action employer and all qualified applicants will receive consideration for employment without regard to age, race, color, religion, sex, sexual orientation, gender identity or expression, national origin, disability status, protected veteran status, or any other characteristic protected by law.

“Mary C. Stoddard” <mstoddard@princeton.edu>

QueenMaryU London EvolutionSymbiosis

Evolution of symbiosis - Host immunity manipulation as an adaptation for symbiosis

A Postdoctoral Research Assistant position is available at Queen Mary University of London (QMUL) in Dr Lee Henry's group to investigating “Host immunity manipulation as an adaptation for symbiosis”. This is a BBSRC-NSF/BIO funded project that aims to understand how host immune systems are modified, or manipulated, to recognise and host beneficial microbes, while still resisting harmful pathogens. The project involves state-of-the-art techniques in genomics and molecular biology (e.g. RNAi, CRISPR), and experimentally manipulations of herbivorous insects (aphids) and their symbionts.

We have shown that hosting beneficial microbes results in a sharp decrease in the expression of key immune genes in aphids. In this project, the successful applicant will answer the questions: do symbionts manipulate host immune systems to establish in hosts, or have hosts evolved a modified immune response to facilitate symbiosis? and do host's trade-off in their ability to harbour beneficial symbionts and resist pathogens?

An ideal candidate should have a PhD (or be close to completion) in Evolutionary Biology, Genomics, Genetics or a related field. They should provide evidence of expertise in lab skills in molecular biology. Alternatively, if candidates are more data-analysis oriented, they should provide evidence of programming skills and

should be proficient in transcriptome or genome analyses. A proven track record of published research is essential. Self-motivation, an ability to work as part of a team and an interest in new research questions will be fundamental to the position.

Queen Mary is one of the top research-led universities in the UK and was ranked 9th among the UK multi-faculty universities in the Research Excellence Framework (REF 2014). All postdoctoral researchers are part of the QMUL Doctoral College, which provides support with high-quality training and career development activities.

The post is full-time and available until 28th February 2025. The start date would be 1st May 2022 or as soon as possible thereafter. The salary is in Grade 4, in the range of 33,824 - 34,733 per annum, inclusive of London allowance.

We offer access to a generous pension scheme, 30 days' leave per annum (pro-rata for fixed-term), season ticket loan scheme and access to a comprehensive range of personal and professional development opportunities. In addition, we offer a range of work life balance and family friendly, inclusive employment policies, flexible working arrangements, and campus facilities including an on-site nursery at the Mile End campus.

For information on what we do, please visit our lab website: <https://www.henry-lab.co.uk/> Before applying, please contact Dr. Lee Henry (l.henry@qmul.ac.uk).

To apply, please go to the website below:

<https://www.qmul.ac.uk/jobs/vacancies/items/-6709.html>

The closing date for applications is March 22nd, 2022. Interviews will be held shortly thereafter.

Lee Henry Senior Lecturer Queen Mary University of London School of Biological and Chemical sciences Mile End Rd London E1 4NS

<https://www.henry-lab.co.uk/> <https://www.henry-lab.co.uk/>

RiceU 2yr Evolutionary Biol

EEB FACULTY FELLOW IN ECOLOGY & EVOLUTION: The BioSciences department of Rice University (<http://biosciences.rice.edu/>) seeks to fill a Faculty Fellow position in ecology and/or evolution. The position is a two-year appointment with a third year extension possible, with a tentative start date of July 1, 2022.

Our prestigious EEB Faculty Fellow Program aims to recruit outstanding postdoctoral researchers who merge excellence in teaching and research. Fellows receive faculty status, employee benefits, competitive salary, and research funds for independent or collaborative research. Collaborative interests with the existing faculty in the EEB research area are a plus. Position duties include independent research and teaching a three credit course in the field of Ecology and Evolutionary Biology per year of employment (course topic depending on fellow expertise and the needs of the department). Eligibility requires a PhD conferral before July 1, 2022.

Application review will begin March 27th. The application will include a curriculum vitae, a statement of research interests, a statement of teaching interests, and a statement of contribution to diversity, equity, and inclusion. The research statement should outline the candidate's research questions and motivation, previous work, and future plans. The research statement does not need to include a detailed plan for the research that will be conducted during the Fellowship. The teaching statement should describe the candidate's teaching philosophy, experience, and future teaching interests. The statement for diversity, equity, and inclusion should describe how the candidate will contribute to diversity, equity, and inclusion as a member of the Rice community, noting any relevant experience in this area if applicable.

The application, along with contact information for three people who can provide letters of recommendation should be submitted via Interfolio here apply.interfolio.com/104371. Letters will be requested from a subset of candidates following initial review.

For further questions please contact Dr. Amy Dunham (aed4@rice.edu), Search Committee Chair. Rice University is an Equal Opportunity/Affirmative Action Employer and values a diverse faculty. People from groups historically excluded from STEM are encouraged to apply.

Lisa Evans <lre2@rice.edu>

SussexU TransposableElementsInPlants

A 2-year Royal Society-funded computational Postdoc position to study interactions between TEs and their host genomes in plants. Host is the Bousios lab in the University of Sussex, UK.

Job Link: <https://www.sussex.ac.uk/about/jobs/-research-fellow-computational-biology-7771> Our lab is interested in understanding the interactions between TEs and their host genomes in plants by focusing both on mechanistic and evolutionary perspectives. Having a strong background in bioinformatics, and based on your interests, you will be leading projects that can include i) the co-option of cis-regulatory motifs of TEs by host regulatory networks in grasses, ii) the impact of TEs in the function and evolution of centromeres in *Arabidopsis thaliana* and related species, iii) the capture of gene fragments by TEs and how this is linked with pseudogenization of the donor genes and with genome evolution in general. These projects involve UK-based and international collaborators (e.g. Ian Henderson from the University of Cambridge, and Brandon Gaut from the University of California Irvine).

This is an excellent opportunity for a computational biologist wishing to apply their skills to elucidating the role of TEs in fundamental processes of plant genomes. You will have substantial experience working with large-scale genetic/epigenetic data, genome-wide analysis, or pattern discovery towards building identification methodologies. You will be able to develop research objectives, contribute to grant applications, supervise the work of others and act as team leader, present at conferences, and prepare scientific publications. The position is supported by a grant of the Royal Society.

Please contact Dr Alexandros Bousios alex.bousios@sussex.ac.uk for informal enquiries.

– Alexandros Bousios, PhD Royal Society University Research Fellow

University of Sussex | UK

alexandros.bousios@gmail.com | email <http://www.sussex.ac.uk/lifesci/bousioslab/> | www <http://infspire.org/> | www alexandros bousios | Skype

Alexandros Bousios <alexandros.bousios@gmail.com>

SyracuseU MutalismCoevolution

Postdoc opportunity at Syracuse University

Posting: <https://www.sujobopps.com/postings/91894>

Description: The Segraves and Althoff labs are seeking to hire a postdoctoral fellow to study coevolution in multispecies mutualism. A key challenge in biology is to determine how the processes we discover in simple systems translate to more complex systems. This is particularly important for understanding the coevolutionary dynamics of multi-mutualist communities and how these communities assemble, function and are maintained. The successful candidate will use a synthetic laboratory-based system of brewer's yeast to examine how both abiotic and biotic contexts influence the coevolutionary process in multi-mutualist communities.

The position is currently open and is a one-year renewable appointment for up to four years. Salary is commensurate with NIH standards.

Please direct any questions to Kari Segraves (ksegrave@syr.edu).

Kari Segraves <ksegrave@syr.edu>

UAberdeen LandscapeGenetics

MSCA Individual Fellowship hosting offer -Comparative landscape genetics in Aberdeen,Scotland

<https://euraxess.ec.europa.eu/jobs/hosting/msca-individual-fellowship-hosting-offer-comparative-landscape-genetics-aberdeen>

The Lancaster research group at the University of Aberdeen (UK) is seeking a Marie Curie postdoctoral researcher/applicant to lead on a landscape genetic datasynthesis project. We aim to develop a database of landscape genetic data and parameters across Eukaryotic (and possibly Prokaryotic) species, and to use the data to address major questions about the comparative biogeography of spatial genetic processes.

We have developed a draft proposal which we will share with interested applicants, and our group has a recent a track record of success in securing MSCA funding.

Interested parties, please contact lesleylancaster@abdn.ac.uk to discuss and plan further project details, and to plan the development of a competitive bid for funding.

See <https://scholar.google.co.uk/citations?user=HDhZBekAAAAJ&hl=en> for examples of our recent publications.

Dr. Lesley Lancaster School of Biological Sciences University of Aberdeen Aberdeen, AB24 2TZ United Kingdom (+44) 01224274551

lesleylancaster@abdn.ac.uk

The University of Aberdeen is a charity registered in Scotland, No SC013683. Tha Oilthigh Obar Dheathain na charthannas cliùraichte ann an Alba, ìir. SC013683.

“Lancaster, Lesley” <lesleylancaster@abdn.ac.uk> “Lancaster, Lesley” <lesleylancaster@abdn.ac.uk>

UAuckland AlgorithmicPhylogenetics

Postdoc in Algorithmic Phylogenetics at the University of Auckland

A postdoctoral position is available to work on a project related to algorithmic foundations of phylogenetic networks. Such networks are used to represent and analyse evolutionary relationships between entities such as species, viruses, and cancer cells. A particular focus of the project is the development of new parameterized algorithms and other algorithms with performance guarantee to reconstruct phylogenetic networks from biological data. The position is for 18 months, to commence in early 2023, and fully-funded by a Marsden Fund Grant from the Royal Society of New Zealand Te Apàrangī. The successful candidate will be based in the School of Computer Science at the University of Auckland.

Requirements. The successful applicant has a PhD degree in computer science or mathematics, and a strong background in theoretical computer science or discrete mathematics. An interest in biological questions is desirable, but not a strict requirement.

Application. To apply, please email your CV, a cover letter including your motivation to apply for this position, a research statement (2 pages maximum), and names and contact details of two referees to Simone

Linz (s.linz@auckland.ac.nz). Informal inquiries can be directed to the same address. Applications will be reviewed starting 15 April 2022 and continue until the position is filled.

Dr Simone Linz School of Computer Science University of Auckland s.linz@auckland.ac.nz

Simone Linz <s.linz@auckland.ac.nz>

UBern Eawag Paleolimnology LakeVictoria

The IEE Division Aquatic Ecology & Evolution and the Eawag Center for Ecology, Evolution, and Biogeochemistry in Kastanienbaum seek to recruit a

Postdoc in Quantitative Paleolimnology

The position is part of an SNSF funded project entitled “20,000 years of evolution and ecosystem dynamics in the world’s largest tropical lake reconstructed from sediment cores, fossils and ancient DNA”. The overall aim of the project is to understand the ecosystem and evolutionary history of Lake Victoria, East Africa. The goals for the postdoc are to help synthesize the results from the project by integrating and interpreting diverse time series that include multiple biogeochemistry proxies along with organismal remains (e.g. zooplankton and fish teeth). This unique data set has been developed over the past 5 years by a large team of researchers, and is based on a series of sediment cores that provide a unique historical record of ecosystem dynamics of Lake Victoria spanning the entire Holocene - a time period that includes not only the emergence of a dramatic radiation of cichlid fish but also the more recent human-mediated ecosystem degradation that culminated in a mass extinction of cichlids and a thoroughly changed food web.

We are interested in candidates with expertise in quantitative data analysis and an interest in the paleolimnology of tropical lakes. The team of researchers involved in the project includes paleolimnologists, ecologists, and evolutionary biologists. The main data sources that support the proposed work have been generated and are ready for synthesis. Additionally developing own ideas within the framework of the project is encouraged.

The position is based at Eawag’s Center for Ecology, Evolution & Biogeochemistry (CEEB), which is located on the shores of Lake Lucerne and is a strong nucleus of research groups aimed at integrating evolutionary biol-

ogy, community ecology, and ecosystem science http://www.eawag.ch/forschung/cc/ceeb/index_EN. The Postdoc will interact with a diverse range of researchers studying community ecology, evolutionary biology, ecological genetics, ecosystem science, and applied environmental science.

The postdoc project is jointly led by Blake Matthews and Ole Seehausen and involves collaborations with other research groups at Eawag, the University of Bern (Institute of Ecology & Evolution, Institute of Geography), the University of Basel, and the University of Copenhagen.

Screening of applicants will begin immediately, and the closing date is 31 Mar 2022.

Our research department has presence both at Eawag and at Uni Bern IEE and offers an excellent working environment in which employees can contribute their strengths, experience and ways of thinking. Diversity, equity, and inclusion are core values of our Department, and we are committed to ensuring our workplaces reflect those values. As such, we strongly encourage applications from researchers identifying as a member of a historically marginalized group. You can find more information about us here <https://www.eawag.ch/en/department/fishec/> and here <https://www.aqua.iee.unibe.ch/> Please contact Blake Matthews blake.matthews@eawag.ch or Ole Seehausen Ole.Seehausen@eawag.ch

We look forward to receiving your application. Please submit your application in one single pdf file that includes CV, motivation letter, copies of academic qualifications, and the names and contact information for three references to Alexandra.depeyer@iee.unibe.ch

ole.seehausen@iee.unibe.ch

UBristol EvolutionaryGenomics

POSTDOC IN EVOLUTIONARY GENOMICS/BIOINFORMATICS

We are seeking an experienced and energetic postdoc to work on our Leverhulme Trust Research Project 'Evolution of a kin recognition system in social insects'. How do altruistic individuals recognise social parasites? In some bees, wasps and ants most individuals forgo reproduction to support the offspring of others. This evolutionary conundrum is explained by kin selection, where helping related individuals indirectly promotes

the helper's overall fitness. However, this strategy is vulnerable to exploitation. An ability to distinguish kin from non-kin is therefore critical for social living to evolve. By combining broad taxonomic sampling with detailed neuroanatomical, genomic and functional characterisation of the sensory structures underpinning kin recognition, we are investigating the neural and chemosensory adaptations that support this behaviour, and the remarkable diversity of Hymenopteran social systems.

What will you be doing?

This role will lead the genomics side of this project, working together with other team members in the UK and France. The work will include collating published genomic data across Hymenoptera, and combining it with newly sequenced genomes to perform phylogenetic analyses of chemoreceptor genes. These analyses will be informed, and combined, with data on neuroanatomical traits.

You should apply if

The role will suit someone with experience in handling large genomic datasets, genome assembly, annotation and phylogenetic analyses, and excellent data handling and organizational skills. You will be working with a multidisciplinary team, so must have strong communication skills and an enthusiasm for understanding different branches of biology.

FULL DETAILS: <https://www.bristol.ac.uk/jobs/-find/details/?nPostingId=120702&nPostingTargetId=-268598&id=Q50FK026203F3VBQBV7V77V83&LG=-UK&mask=newuobext> For informal enquiries please contact Dr Stephen Montgomery (s.montgomery@bristol.ac.uk).

Dr Stephen Montgomery He/him

NERC/ERC Research Fellow School of Biological Sciences University of Bristol

Email: s.montgomery@bristol.ac.uk Tel: +44 (0)11739 41181 Twitter: [@eohomo](https://twitter.com/eohomo) www.shmontgomery.co.uk I am a friend and ally of the BAME and LGBTQ communities because I believe in equality for everyone.

Stephen Montgomery <s.montgomery@bristol.ac.uk>

UBrussels TropicalTreePopGenomicsBioinformatics

A 2-year postdoctoral position on plant genome evolution is available in the team of Prof Olivier Hardy (<http://ebe.ulb.ac.be/ebe/Hardy.html>) at the University of Brussels (Université libre de Bruxelles), Belgium.

Context: The team is working on the evolution and dynamics of African rainforest plants and its main research topics include comparative phylogeography, population genetics, phylogenomics, seed and pollen dispersal, species delimitation. The postdoc will work on the project “Genomic signatures of inbreeding depression and mutation load in a threatened African timber tree”, funded by the F.R.S.-FNRS.

Project: The objective of the project is to study inbreeding depression and the accumulation of a mutational load in an inbred African timber species, *Pericopsis elata* (Fabaceae), threatened by over-exploitation and suffering from poor natural regeneration. The species has a mixed-mating strategy (ca. half of the seeds result from self-fertilization), an uncommon situation among tropical trees. In Central Africa, a steep westward decay of genetic diversity suggests a recent range expansion. This context provides an opportunity to study the impact of selfing and range expansion on inbreeding depression and genetic load. Whole-genome sequencing will be combined with field measurements of fitness components to (1) determine the degree of inbreeding depression on seedling mortality and tree growth, (2) identify genomic signatures of mutation load and inbreeding depression, (3) infer the demographic history of populations from population genomics signatures. Beyond its interest for fundamental research, this study will also be of interest for the conservation and sustainable management of *P. elata*, whose deficient regeneration must be compensated by plantation, by identifying provenances with high fitness and by defining strategies to avoid the negative impact of inbreeding depression and mutation load.

Postdoc research: The postdoc will conduct in particular the genomic aspect of the project, including the genome assembly of the species (150bp PE reads available, MINION data to come), laboratory work for resequencing or genotyping new individuals, genomic data analyses to quantify genetic load and infer the demographic history of the populations. Field missions in Africa might also be organized.

Required skills: The postdoc should have a strong background in theoretical population genetics/evolutionary biology and bioinformatics, with experience in genome assembly. Experience in “wet lab” molecular biology is a strong advantage. Experience with tropical plants would be a plus.

Where: The postdoc will work in Brussels, in the Evolutionary Biology and Ecology unit, which is equipped with a molecular platform. He/she will work in close collaboration with Olivier Hardy and his team members (currently 4 PhD students, 1 technician, MSc students) as well as the team of Jean-Francois Flot for the genome assembly aspect.

Conditions to apply: Candidates must have a PhD obtained less than 8 years ago and cannot have been residing in Belgium for more than 2 years in the past 3 years (conditions imposed by the fellowship).

Salary: The net monthly salary is 2 607 euro .

Starting date: The position is available immediately and should ideally start no later than July 2022.

How to apply: Interested candidates should send to Olivier Hardy (olivier.hardy@ulb.be) their CV and a brief letter of motivation stating how their expertise fits with the position, preferably before 11 April 2022. More details about the project can be requested by potential candidates.

Olivier Hardy Research Director from FNRS Evolutionary Biology and Ecology - CP 160/12 Université Libre de Bruxelles 50 Av. F. Roosevelt 1050 Brussels Belgium Tel: +32 (0)2 650 6585 email: olivier.hardy@ulb.be

Olivier Hardy <olivier.hardy@ulb.be>

UBuffalo EcolEvolBio

Exciting opportunity for an Ecological and/or Evolutionary Biology Postdoctoral Associate in the Department of Biological Sciences, College of Arts and Sciences, University at Buffalo.

Job posting link: <https://www.ubjobs.buffalo.edu/-postings/33804> The Santos Laboratory (<https://arts-sciences.buffalo.edu/biological-sciences/faculty/-faculty-directory/scott-santos.html>), recently relocated to the University at Buffalo, utilizes a variety of molecular tools, computational approaches and field- and laboratory-based studies to examine the ecology, evolution, genetics, physiology, and symbiosis

biology of a range of terrestrial and aquatic (both freshwater and marine) organisms, including host- and environmentally-associated microbiomes.

In the above context, three broad areas of current research are:

- Phylogeography and physiology of microbiomes and crustaceans from the anchialine ecosystem of the Pacific Basin
- Animal-microbial interactions via grazing or symbioses
- The genetic basis of coloration variation and longevity in crustaceans

The successful candidate will have a chance to work with existing, as well as generating novel, large-scale datasets including genomic (DNA/RNA) resources. The candidate will have the opportunity to collaborate with researchers from multiple institutions and government agencies on projects involving the above. The candidate would also be expected to work with Dr. Santos on developing research proposals to funding agencies such as the National Science Foundation (NSF) in the above areas. The Santos Lab has a history of having diverse personnel and a multidisciplinary research program and is interested in recruiting from different backgrounds to continue this tradition.

The candidate should have a Ph.D. preferably in ecological and/or evolutionary biology, population genetics, physiology, computational biology, bioinformatics, or microbiology. Experience in handling large datasets (e.g., high-throughput sequencing data), programming and scripting (e.g., Python, R), and familiarity with UNIX/LINUX operating environments is preferred.

If you are interested, please submit your CV, names of three references, and a brief (no more than 1.5-page) cover letter outlining research interests and career goals (including personal perspectives in diversity, equity, and inclusion in the biological sciences). Applications will be accepted until the position is filled.

Outstanding Benefits Package Working at UB comes with benefits that exceed salary alone. There are personal rewards including comprehensive health and retirement plan options. We also focus on creating and sustaining a healthy mix of work, personal and academic pursuit - all in an effort to support your work-life effectiveness. Visit our benefits website to learn about our benefit packages.

About The University at Buffalo The University at Buffalo (UB) is one of America's leading public research universities and a flagship of the State University of New York system, recognized for our excellence and our impact. UB is a premier, research-intensive public university dedicated to academic excellence. Our research, creative activity and people positively impact the world.

Like the city we call home, UB is distinguished by a culture of resilient optimism, resourceful thinking and pragmatic dreaming that enables us to reach others every day. Visit our website to learn more about the University at Buffalo.

As an Equal Opportunity / Affirmative Action employer, the Research Foundation will not discriminate in its employment practices due to an applicant's race, color, religion, sex, sexual orientation, gender identity, national origin and veteran or disability status.

Minimum Qualifications: - PhD (or MD) preferably in ecological and/or evolutionary biology, population genetics, physiology, computational biology, bioinformatics, or microbiology conferred within the past five years.

Preferred Qualifications: - Experience in handling large datasets (e.g., experience genome-wide sequencing data), programming and scripting (e.g., Python, R), and familiarity with UNIX/LINUX operating environments is preferred.

Interested applicants should submit: - a CV - names of three references - a brief (no more than 1.5-page) cover letter outlining research interests and career goals (including personal perspectives in diversity, equity, and inclusion in the biological sciences).

Please do not send application materials directly to the posting contact. Please use posting link (<https://www.ubjobs.buffalo.edu/postings/33804>) for applying to this opportunity.

Applications will be accepted until the position is filled.

Scott R. Santos Empire Innovation Professor

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UCalgary TheoryGenomicsAdaptation

Yeaman Lab Department of Biological Sciences, University of Calgary

I'm seeking to hire a postdoctoral researcher to use some combination of individual-based simulations and/or comparative genomics to explore a consequential question

about the process of adaptation and how we study it. Some potential areas of inquiry are outlined below but alternative proposals for projects within this broad area are strongly encouraged. The start date is flexible and funding is in place until July 31, 2023, with the possibility of extension if additional funding is secured. This position can be carried out as either a remote-work or in-Calgary appointment.

Some potential projects:

- The effect of spatial structure and heterogeneous selection on Linkage Disequilibrium, and how this affects detection of signatures of selection
- Maintenance of variation under temporal + spatial heterogeneity
- How genotypic redundancy and pleiotropy affect the repeatability of adaptation
- How does pleiotropy affect evolvability?

Existing resources within the Yeaman lab:

- Comparative population genomic datasets with lots of open questions remaining (lots of genomic data for conifers, sunflowers, parasitic nematodes)
- An ongoing study on repeatability of local adaptation with genome-scale data for >25 plant species. Another postdoc in our lab is already working on this and eager to collaborate on incorporating GWAS and other datasets to explore links between pleiotropy and involvement in adaptation.

The position will run for 1+ years (CAD \$55k salary + benefits).

TO APPLY: Please send a CV and a short description of your interest in the position and any relevant research experience to samuel.yeaman@ucalgary.ca, along with the names and emails of three people I could contact for reference letters. I will begin reviewing applications on March 21st, but please contact me to check in if you need to make a quick decision.

Samuel Yeaman <samuel.yeaman@ucalgary.ca>

UCyprus PopulationGenomics

Postdoctoral research position in genomics and transcriptomics at the University of Cyprus

We are looking for a postdoctoral researcher to work on two Cyprus Research and Innovation Foundation

(RIF) projects in Alex Kirschel's lab at the Department of Biological Sciences at the University of Cyprus. The projects "Leveraging ancestry to investigate the genomics of song and colour in birds" and "Continent-wide genomics of hybridisation and speciation" involve collaboration with Associate Professor Bridgett vonHoldt, an expert in evolutionary genomics and epigenetics at Princeton University and Dr. Andrea Fulgione an expert in evolutionary and computational genomics of plants at Max Planck Institute for Plant Breeding Research.

The role involves working on bioinformatics pipelines and downstream genomics analyses of whole genome sequences and ddRAD sequencing, working closely with Dr. vonHoldt and Dr. Fulgione. Genomics analyses include admixture mapping, GWAS, and RNAseq and IsoSeq annotation of the transcriptome to examine gene expression patterns associated with phenotypic characters important in speciation. Population genomics analyses will include demographic inference, based on site frequency spectrum and multiple sequentially Markovian coalescent (MSMC) approaches, as part of an investigation into discordance between nuclear genome and mitogenome phylogenies, while D statistics, and landscape genomics approaches will also be used.

Requirements

A PhD in a related subject

Molecular lab experience in genomic library preparation

Proficiency in R

Expertise in bioinformatics and command line

A good understanding of transcriptomics

Proficiency in English

Desirable skills

Experience with demographic inference

First author publications in peer-reviewed scientific journals

Location

The position is based at the University of Cyprus, in Nicosia, but is planned to involve a month-long visit to Princeton to work closely with Dr. vonHoldt. It will also involve manuscript preparation and dissemination of results in scientific conferences as well as via other outlets.

The positions are for an initial 12 months, extendable up to 24 months, with a gross annual salary range of euro 26,563.92 - euro 36,208.92 per annum.

How to apply

Applications for these positions are due by 30th April

Informal enquiries and applications, including a cover letter, CV, details of two referees, and a list of publications, should be sent by email to:

Associate Professor Alexander Kirschel
Behavioural Ecology and Evolution Lab
Department of Biological Sciences
University of Cyprus
Alexander Kirschel <kirschel.alexander@ucy.ac.cy>

U**Edinburgh** Genomic**Breeding**Of**Forages**

Hi,

We are looking for a new post-doc colleague to work with us on a project, “GenoForage: Genomic breeding of forages”.

The post is funded for 2 years by a leading plant breeding organisation and The University of Edinburgh. We will support you to develop your future options through interactions with the HighlanderLab at The Roslin Institute <https://www.ed.ac.uk/roslin/highlanderlab> The work will include:

- i) gathering and analysing existing and simulated data to estimate additive and dominance genetic associations between genomic markers and multi-trait phenotypes;
- ii) analysing past genetic trends in means, variances, and correlations for additive and dominance components of genetic value, including inbreeding depression and heterosis;
- iii) developing a breeding strategy that will leverage genomic data to shorten long breeding and development times as well as to optimise crossing plans for total genetic value, hence minimising inbreeding depression; and
- iv) interaction with the HighlanderLab, including other research and development opportunities.

Apply: https://elxw.fa.em3.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_1001/job/3761 Post details: https://uo.sharepoint.com/:w:/s/jobdescriptionlibrary/-EYDGLn_92YlBnp8gskrJpYEB_5yLua9nsa6MrOh4Tea6vw?rtime=t1md1kUO2kg Contact gregor.gorjanc@roslin.ed.ac.uk for any further clarification. You have to apply via the link above.

With regards!

University of Edinburgh Gregor Gorjanc, PhD The Roslin Institute Group leader (Reader) Easter Bush twitter: @GregorGorjanc EH25 9RG mail: gregor.gorjanc@roslin.ed.ac.uk Scotland, UK web: www.ed.ac.uk/roslin/highlanderlab Gregor Gorjanc <gregor.gorjanc@roslin.ed.ac.uk>

U**Exeter** Evolutionary**Genomics**

The Fraser lab is looking to a Postdoctoral Research Fellow to participate in the grant 'Genomic basis of convergent evolution in the Trinidadian Guppy' (EU H2020 ERC Starting grant GUPPYCon ref 758382). This post is available June 2022 to May 2023 with the possibility of extension. The successful applicant will primarily be involved in mapping ecologically important traits to the genome.

The position will be on understanding the genetic architecture of traits that evolve rapidly and repeatably in guppies. This will involve processing and analysing the phenotypic and genomic data for quantitative genetics breeding crosses already in-hand. Therefore, the applicant should have experience and/or keen interests in quantitative genetics, bioinformatics, and evolutionary biology.

Application closing date: 17/04/2022 Start Date: 1/06/2022 (note this is an updated closing date) Salary: The starting salary will be from 36,382 up to 43,434 on Grade F, depending on qualifications and experience. Location: Exeter, Devon, UK

Application link: https://jobs.exeter.ac.uk/hrpr_webrecruitment/wrd/run/-ETREC107GF.open?VACANCY_ID=-897153ZAZy&WVID=3817591jNg&LANG=USA

Please do not hesitate to contact me (Bonnie Fraser) for more information at b.fraser@exeter.ac.uk

Google scholar page: <https://scholar.google.com/citations?user=ZsXGWJQAAAAJ&hl=en> “Fraser, Bonnie” <B.Fraser@exeter.ac.uk>

UFlorida AvianPhylogenomics

Post-doc in avian phylogenetics

A post-doc position is available at the University of Florida (Gainesville, Florida) to work with Rebecca Kimball, Edward Braun, and the OpenWings consortium (<https://blog.openwings.org/>). OpenWings is an NSF funded project with the goal of estimating a phylogeny for over 10,000 avian species using ~5000 UCEs (ultraconserved elements) and using that phylogeny to address questions about avian evolution. Although the postdoc will be based at University of Florida, there is potential to visit the labs of other OpenWings PIs.

The postdoc will primarily be involved in data analysis and writing of manuscripts. Candidates should have completed a PhD (or will very soon) and have a good knowledge of phylogenetics. Ideal candidates will have experience in computational phylogenetics, experience in managing and analyzing large phylogenetic datasets, and be knowledgeable about avian systematics.

Questions and applications should be addressed to Rebecca Kimball (rkimball@ufl.edu). Applications should include: 1) a cover letter outlining your research experiences, interests and career goals; 2) a c.v. including the names and contact information for at least 3 references; and 3) copies of up to 3 publications or manuscripts in review. Applications received by April 8, 2022 will receive the highest consideration but later applications may be considered. Candidates should be able to begin no later than August 2022.

“Braun,Edward Louis” <ebraun68@ufl.edu>

UFlorida LepidopteraGenomics

The Kawahara Lab at the University of Florida, Gainesville, USA, is currently seeking a postdoctoral fellow to conduct evolutionary genomics research on butterflies and moths (Lepidoptera). Specifically, the candidate will assemble and annotate short and long-read genomes and conduct comparative analyses of sensory gene-family evolution (vision, auditory, olfaction, etc.). The project is for 2 years with additional years possible

depending on progress.

Required: 1) A Ph.D. in genomics and or transcriptomics, 2) experience with computer programming/scripting in Perl/Python/R etc., 3) familiarity with high-performance clusters and bioinformatics pipelines, 4) strong ability to write and communicate in English. An interest in insects is desired, but not required.

The successful candidate will work closely with students, postdocs, and staff in the lab and lead projects on gene-family evolution in butterflies and moths. Responsibilities include data analysis, student training, and publishing papers. Position available immediately. The Kawahara Lab welcomes all groups, regardless of racial or ethnic background and encourages underrepresented groups to apply. The Lab’s website (<https://www.floridamuseum.ufl.edu/kawahara-lab/>) includes a working Code of Conduct document (<https://www.floridamuseum.ufl.edu/kawahara-lab/lab-code-of-conduct/>)

Tentative timeline (may change): April 1, 2022: Application deadline April 4-April 8, 2022: Evaluation of applications April 11-April 13, 2022: Short listed candidates will be contacted for an interview April 20-April 27: interviews April 30: Deliberation and decision on top candidate

Once a candidate has accepted the job offer, we will contact all applicants to let them know about our decision.

Salary: \$52,000.

To ensure full consideration please send a single pdf by April 1, 2022, containing: 1) a cover letter (explaining your background and fit for this position), CV, and list of 3 qualified references, to Akito Kawahara at kawahara@flmnh.ufl.edu with the email subject line: Postdoc_KawaharaLab. Applications that do not follow this format may not be considered. Any questions can be addressed to Akito Kawahara at the email above.

kawahara@flmnh.ufl.edu

UGuelph 8 Biodiversity

BIOSCAN: Transforming Biodiversity Science

An Exceptional Opportunity for Early Career Researchers

The International Barcode of Life Consortium (iBOL) is coordinating a series of research programs that will

register all multicellular species and activate a global biosurveillance system within 25 years. BIOSCAN, its current program, is an 8-year, \$180 million effort involving organizations in 40 nations. Its scientific work focuses on three major themes - species discovery, interactions, and dynamics. This work will be advanced by exploiting the latest developments in DNA sequencing, AI, data science, and machine learning. This scientific work will support important applications designed to improve the sustainability of agriculture, forestry, and mining. Furthermore, BIOSCAN aims to ensure its science influences society through policy change. Further details are available at <https://bioscan.life/> Because BIOSCAN's activities are rapidly expanding in Canada and internationally, this is the perfect time to join an enterprise that will transform our understanding of biodiversity and our capacity to manage it. We seek early career researchers (ECRs) to join us in leading Canada's contribution to BIOSCAN. If selected, you will work with leading Canadian researchers in biodiversity science, genomics, and computer science to achieve BIOSCAN's mission. There will be strong opportunities for cross-disciplinary training, for national and international travel, and for carrying out impactful science. See following page for a detailed description of each position.

Postdoctoral fellow, Hebert Lab (6 positions) Principal Investigator: Dr. Paul Hebert Summary: These postdoctoral fellows will advance work on species discovery in both Canada and internationally. As more than 10 million specimens will be analyzed over the next six years, those selected for these positions will have access to unprecedented datasets in terms of both geographic breadth and taxonomic coverage. Work will involve the acquisition and analysis of long-read DNA sequences generated by in-house PacBio Sequel and Sequel II platforms supported by a strong team of analysts. Tens of thousands of species new to science will be registered, motivating the search for improved methods to discriminate species and to speed their description. Prior experience with arthropod taxonomy, especially with Acarina, Collembola, Hemiptera, Hymenoptera, or Lepidoptera is desirable. Candidates who couple such expertise with a background in DNA barcoding, metabarcoding, or molecular evolution will be ideal for these positions.

Postdoctoral fellow, Hajibabaei Lab (1 position) Principal Investigator: Dr. Mehrdad Hajibabaei Summary: Our lab uses genomic methods to investigate biodiversity and its changes at various levels of organization and scales. This postdoctoral position will help advance the development of bioinformatic tools for the rapidly advancing field that uses metabarcoding and

related approaches. This could involve the development of new tools or improvement of existing tools to be more scalable or user-friendly. Potential candidates should be comfortable working in a command-line Linux environment, and they should be familiar with a scripting language such as Python or Perl. Candidates should have experience in R and be comfortable performing basic statistical tests in R or Python as required. An interest in or experience implementing machine learning (ML) techniques using R or Python would be an asset but not required. Any previous experience with field work, molecular biology work, analyzing metabarcoding or other genomics data should be mentioned in your application. Our lab provides an excellent training environment for motivated candidates with a willingness to learn or further develop proficiency with scripting/coding/ML methods. Our team has expertise in ecology-evolutionary biology, bioinformatics, and computational biology. Your application should list your technical skills (platforms, languages, programs) and highlight relevant course work as well as how you have applied your technical expertise to address problems in the fields of ecology/ evolutionary biology/genomics or related fields.

Postdoctoral fellow, Machine Learning Research Group (1 position) Principal Investigator: Dr. Graham Taylor Summary: We seek a postdoctoral fellow to be based in the Machine Learning Research Group at the University of Guelph and affiliated with the Vector Institute for Artificial Intelligence, a network of more than 600 AI researchers. You are motivated to advance AI/ML research in the service of BIOSCAN's ambitious global mission. You will have the opportunity to work on projects that span computer vision and DNA sequence analysis. For vision, this involves pushing the limits of fine-grained recognition for taxonomic categorization using techniques such as self-supervised

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UHelsinki 9 ForestTreeGenomics

<https://www2.helsinki.fi/en/open-positions/postdoctoral-researchers-the-centre-of-excellence-in-tree-biology> The Centre of Excellence in Tree

Biology invites applications for

9 POSTDOCTORAL RESEARCHER POSITIONS in the following research projects

- Project 1: Stomatal function and vascular connections. The project aims at molecular-level understanding of guard cell signalling and function in response to environmental stimuli. We will also address molecular connections between stomatal regulation and vascular function (e.g., water transport, systemic signals). We will utilize proteomics, biochemical and molecular genetics approaches in Arabidopsis and physiological measurements of stomatal and vascular parameters in Arabidopsis and trees. Supervisors: Kangasjärvi, Sierla, Shapiguzov, Waszczak
- Project 2: Stomatal developmental plasticity. The aim of the project is to identify molecular mechanisms controlling stomatal plasticity in Arabidopsis and trees and to unravel how signal integration between pathways mediating environmental information defines stomatal numbers. Supervisors: Vatén, Mähönen
- Project 3: The role of energy metabolism in carbon source effects. The project aims at: (i) dissecting metabolic and signalling interactions between chloroplasts and mitochondria and (ii) developing new methods for phenotyping photosynthesis and respiration (including advanced chlorophyll fluorometry, gas exchange and oxygen microsensor approaches). Supervisors: Kangasjärvi, Shapiguzov, Sierla
- Project 4: Morphogenesis and functionality of phloem. Following our extensive previous work of phloem development, we are taking various genetic and molecular approaches to deepen our understanding of phloem at cellular and functional levels. Supervisors: Helariutta, Mähönen, Hölttä, Sierla
- Project 5: Cambial factors. Guided with a comparative single cell transcriptome analysis of Arabidopsis, birch and poplar cambia, the aim in this project is to identify through molecular genetics key loci driving enhanced growth and carbon sink in trees. Supervisors: Mähönen, Kucukoglu-Topcu
- Project 6: Source-sink. By combining computational modelling and experimentation, in this project, we will explore how mutations affecting function of stomata, conductive tissue or cambium and thus, consequently, carbon sequestration in wood, will potentially feedback to each other, and to other aspects in tree physiology. Supervisors: Hölttä, Mähönen, Kucukoglu-Topcu
- Project 7: Distribution and role of open chromatin in silver birch and Scots pine genomes. Open chromatin sequencing (ATAC-seq) allows identification of regulatory

active regions of the genome. In this project, the aim is to study regulatory genomic regions in conjunction with gene expression and population genetic data from both functional genetics and/or evolutionary point of view depending on the interests of the candidate. Supervisors: Pyhäjärvi, Salojärvi

- Project 8: Population genomic studies in silver birch. The CoE, together with the other projects associated with it, will generate a massive amount of whole genome sequencing data from birch populations across Eurasia. Phenotype information will be available for a set of families from a common garden experiment as well as from a high-throughput phenotyping platform. The data allows studies on demography, gene flow and local adaptation, and facilitates identification of genotype-phenotype associations. Based on the interests of the candidate the project can involve also a component of methods development for general population-level inference. Supervisors: Salojärvi and Pyhäjärvi

- Project 9: Genomic breeding. By combining our understanding of physiology and genetics in both trees and Arabidopsis with the phenotypic and genomic data of the current silver birch breeding population in Finland, our aim is to develop a model for genomic breeding in this economically highly important boreal tree species. Supervisors: Nieminen, Pyhäjärvi, Salojärvi

The postdoctoral researchers will be employed full-time for a fixed term of 2-3 years in one of the CoE research groups with possibility of extension. The earliest starting date is 1 April 2022.

We seek candidates who have completed a PhD in genetics, molecular biology, biochemistry, (bio)physics, plant biology or computational biology. Previous experience with plants/trees is beneficial but not necessary. In addition, the candidates shall have excellent written and verbal communicational skills, and the ability to think independently and creatively. They should be able to conceive, execute and complete

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UManchester MicrobialEvolution

From: Prof. Michael Brockhurst, University of Manchester
 Email: Michael.brockhurst@manchester.ac.uk

Research Associate in Microbial Evolution Oxford Road,
 Manchester

Job reference: BMH-018504

Location: Oxford Road, Manchester

Closing date (DD/MM/YYYY):22/03/2022

Salary: 33,309 to 40,927 per annum depending on relevant experience

Employment type: Fixed Term

Faculty/Organisation: Biology, Medicine & Health

Division: Evolution, Infection and Genomics

Hours per week: Full time

Contract Duration: Fixed term from as soon as possible until 30 April 2025

School / Directorate: School of Biological Sciences

We are seeking a Research Associate in microbial evolution as part of an interdisciplinary consortium investigating the evolutionary biology of antimicrobial resistance.

Rising antimicrobial resistance is a threat to global health that is caused by microbial evolution and as such requires evolution-informed solutions. This project, funded by the Wellcome Trust, seeks to better understand and thus predict the evolution of antibiotic resistance in human bacterial infections using a combination of population genomics and experimental evolution.

This position provides an excellent opportunity for ambitious researchers who are interested in applying ecological and evolutionary approaches to combat antibiotic resistance as part of an interdisciplinary team. You will be embedded in a large community of microbial ecology and evolution researchers in Manchester, and will be encouraged to develop new lines of research and collaborations within the consortium.

You will be based at University of Manchester within the group of Michael Brockhurst, but will collaborate closely with the groups of Steve Paterson and Joanne Fothergill (Liverpool), James Chalmers (Dundee), and Dylan Childs (Sheffield).

You should have a PhD or equivalent in evolutionary biology or evolutionary microbiology and experience of microbial evolution research. Candidates with training in experimental evolution and / or the evolution of antibiotic resistance are strongly encouraged to apply.

The School/Department is strongly committed to promoting equality and diversity, including the Athena SWAN charter for gender equality in higher education. The School/Department holds a Silver Award which recognises their good practice in relation to gender; including flexible working arrangements, family-friendly policies, and support to allow staff achieve a good work-life balance. We particularly welcome applications from women for this post. All appointment will be made on merit. For further information, please visit: <https://www.bmh.manchester.ac.uk/-about/equality/> Our University is positive about flexible working - you can find out more here < <https://www.staffnet.manchester.ac.uk/human-resources/current-staff/leave-working-arrangements/-flexible-working/> >

Blended working arrangements may be considered

Please note that we are unable to respond to enquiries, accept CVs or applications from Recruitment Agencies.

Enquiries about the vacancy, shortlisting and interviews:

Name: Prof. Michael Brockhurst

Email: michael.brockhurst@manchester.ac.uk

General enquiries:

Email: People.Recruitment@manchester.ac.uk

<https://www.jobs.manchester.ac.uk/-displayjob.aspx?jobid=21926> Michael Brockhurst
 <michael.brockhurst@manchester.ac.uk>

UmeU MicrobialEvolution

We would like to send a reminder that Umei₂¹ University's Excellence by Choice Postdoctoral Programme is still accepting applications until April 3rd. This is a unique opportunity for postdocs interested in topics related to microbial research (there are currently 16 possible research areas). The program features an open call where afterwards qualified postdocs develop their own research plan with help from researchers at two national Centres of Excellence - Umei₂¹ Centre for Microbial Research (UCMR) and Umei₂¹ Plant Science Centre (UPSC). More details are shown below and at

the website:

<https://www.ucmr.umu.se/ec-programme/1703-ec-postdoc2022.html> If you would like to apply and are interested in the research area of predicting microbial community evolution please contact Peter Lind (peter.lind@umu.se) or collaborator Eric Libby (eric.libby@umu.se) to discuss possible project ideas.

Thanks,

Peter Lind

“Umeå University is currently implementing the ”Excellence by Choice“ Postdoctoral Programme in Life Science research to train outstanding young researchers and stimulate cutting-edge research. As a collaboration between the two national Centres of Excellence - Umeå Centre for Microbial Research (UCMR) and Umeå Plant Science Centre (UPSC) ’ the programme aims to encourage new synergies in Life Science with a focus on molecular and translational research and to strengthen world-class research activities in Umeå. Patron for the new programme will be Nobel laureate Emmanuelle Charpentier, who discovered the CRISPR-Cas9 gene editing technology during her time as a scientist and group leader in Umeå.

Several fellowships are open for outstanding postdoctoral candidates interested to do research in the highly interactive and multidisciplinary research environments of UCMR and UPSC. In the scope of the ”Excellence by Choice“ Postdoctoral Programme, we aim to recruit in total 17 postdoctoral scientists through three rounds of international calls.

In this first round, ongoing now, up to six fellows will be selected during the spring and expected to start their projects in fall/winter 2022. The next call is planned to be advertised towards the end of this year, with supposed start in the beginning of 2023.

Deadline for application: April 3rd 2022

The programme is open to all nationalities. The ”EC“ Postdoctoral Fellows will:

- Develop a collaborative project under supervision of at least two PIs
- Obtain 2-year full-time fellowship exempt from tax (600 000 SEK), as well as grants for project running costs (300 000 SEK) and the fellow’s career development (20 000 SEK)
- Access to UCMR/UPSC-affiliated core facilities and technical platforms such as Chemical Biology Consortium Sweden (CBCS), Protein Expertise Platform, metabolomics, proteomics, X-ray, NMR (850-400 MHz), Computational Analytics Support Platform (CASP) -

a node in NBIS (National Bioinformatics Infrastructure Sweden), Umeå Centre for Electron Microscopy (UCEM) and Biochemical Imaging Centre Umeå (BICU) that form a node in the National Microscopy Infrastructure (NMI)

- Participate in activities to strengthen networks and collaborations in academics and industry

- Involve in a strong postdoc community with the Umeå Postdoc Society (UPS) which fosters networking amongst postdocs, organizes social and career development events

Qualification

Applicants should have a doctoral degree or a foreign degree that is deemed equivalent in the field relevant for the position, preferably completed no more than three years before the starting date of fellowship.

Candidates are encouraged to consider one of the project ideas listed below. For further information please contact the PIs of the considered project idea.

The candidates’ merits and motivation for choice of project idea will be assessed by a panel of UCMR/UPSC researchers. A short list of applicants will then be requested to submit a short research proposal based on the chosen project idea, followed by invitation to an interview.”

Peter Lind <peter.lind@umu.se>

UNorthCarolina Charlotte ElephantPopGenetics

The Rogers lab at UNC Charlotte is hiring a postdoc to work on population genomics of Asian Elephants. We are interested in the ways that structural variation and transposable elements evolve in endangered species under drastic reductions in population sizes. The postdoc will be expected to help analyze the lab’s population genomic data for duplications, deletions, rearrangements and TEs. Additional projects on genome structure evolution in other metazoans are encouraged, especially when public data or collaborations are available.

Some experience with bioinformatic analysis of genome sequence data and knowledge of programming is essential. Statistics and population genetics expertise is recommended. Postdocs must be less than 5 years post PhD and must be available to start the position in the Fall of 2022. Salary will follow NIH recommendations.

The initial contract will be for 1 year, with the option to renew for a second year. Subsequent years will depend on available funding.

Applications should include a CV, a brief summary of research interests, proposal for how their work will fit with the lab, and three references to be contacted on request. Applications must be submitted through NinerTalent (<https://jobs.charlotte.edu/postings/40827>). Applications will be reviewed in the order they are received. Candidates are strongly encouraged to discuss their research interests with Dr. Rogers before applying. (Rebekah.Rogers@uncc.edu)

The Rogers lab supports diversity in science. We are committed to a positive working environment for LGBTQ individuals, underrepresented minorities, and women in science. An overview of the lab can be found at evolscientist.com. Charlotte, NC is a diverse city with an excellent symphony, theater, and performing arts scene. Charlotte also offers a thriving arts scene and live music in NoDa, excellent restaurants surrounding the Downtown, and family-friendly programs in local museums. Farm to table restaurants and farmers' markets are our forte. The cost of living is very affordable, offering a comfortable lifestyle for postdocs.

Rebekah Rogers <rebekah.rogers@gmail.com>

UOtago LifeHistory SexualSelection

Seminal fluid and life-history responses in mammals

We are seeking a Postdoctoral Research Fellow to work on a new project funded by the Royal Society Te Ap̄rangī Marsden Fund, based at the University of Otago, New Zealand. This project seeks to test how seminal fluid exposure during mating influences a female mammal's subsequent life course, including her growth, future fertility and lifespan. The project will use a number of experimental approaches to test these ideas in mice. Research in this project is expected to intersect evolutionary biology and biomedical science, understanding how male reproductive traits influence female fitness, but with relevance to how seminal fluid influences fertility in humans.

The Candidate is expected to have a background in evolutionary biology, reproductive biology, ageing or a related field. It is expected that they will have experience working with rodents, or a very strong desire to learn. Skills in mouse surgery and embryo transfers

would be an asset.

The student will be primarily supervised by Dr. Michael Garratt, whose interests lie in understanding the links between reproduction and ageing. They will be housed within The Department of Anatomy at the University of Otago, a department with diverse and complimentary research interests. These interests include reproduction, genomics, development, neuroscience, neuroendocrinology, clinical anatomy and biological anthropology. The University of Otago is located in the beautiful town of Dunedin in the South Island of New Zealand.

Please address any questions to Mike Garratt (mike.garratt@otago.ac.nz)

For more information and to apply: <https://otago.taleo.net/careersection/2/jobdetail.ftl?lang=en&job=00366> Dr. Michael Garratt Senior Lecturer Department of Anatomy School of Biomedical Sciences University of Otago New Zealand Email: mike.garratt@otago.ac.nz <https://www.otago.ac.nz/-anatomy/people/staff/profile/index.html?id=2975> <https://scholar.google.co.nz/citations?hl=en&user=Q3aOKlgAAAAJ> mike.garratt@otago.ac.nz

UppsalaU MobileGeneticElementDefense

Postdoc Position at Uppsala University - Population dynamics / Systems Biology

Molecular Systems Biology, Department of Cell and Molecular Biology, Uppsala University, Sweden.

A two-year position on a Carl Tryggers postdoc stipend is available to undertake single-cell studies of the effect of bacterial immune systems on conjugative plasmid spread with Dr. Daniel Jones at Uppsala University.

Project description: Mobile genetic elements (MGEs) such as phages and conjugative plasmids play a key role in enabling bacteria to adapt to new ecological niches. At the same time, recent work has begun to illuminate the breadth and diversity of bacterial defense systems against MGEs. In particular, the protein players in CRISPR-Cas systems have been the subject of intensive biophysical investigation into mechanisms of target search and specific target recognition. For instance, we have previously shown that the well-known Cas9 effector protein takes approximately six hours to locate a specific DNA target in *Escherichia coli*.

In this project we aim to connect these biophysical observations with the population dynamics of conjugative plasmid spread at the single-cell level. Given the slow search times observed for CRISPR-Cas effector proteins, how much do these systems need to be expressed in order to provide effective protection, and what is the cost to the cells of doing so? Does cell-to-cell variability in CRISPR-Cas expression affect the vulnerability of the populations to MGE invasion? To address these questions we perform time-lapse fluorescence microscopy on populations of donor and recipient cells, grown in microfluidic devices. By labeling the molecular players (e.g. conjugative plasmids, CRISPR-Cas proteins) with fluorescent tags, we can directly observe individual conjugation and interference events in quasi-real-time. Advanced techniques in quantitative image analysis allow us to compile these individual events into a comprehensive picture of the balance between conjugation, interference, and the cost of immunity.

Requirements: Applicants should possess a PhD degree in microbiology, microbial ecology, biophysics, or a related field, as well as general molecular biology laboratory skills. As the project is cross-disciplinary, the specific field is less important than strong computational/quantitative skills. Experience in quantitative image analysis is a plus. Candidates must have received their PhD from an institute other than the Department of Cell and Molecular Biology at Uppsala University and cannot currently have employment at the Department of Cell and Molecular Biology. Proficiency in spoken and written English is required.

Application: Please submit your CV, a letter describing your research interests and skills, and contact information for two references to Daniel Jones (daniel.jones@icm.uu.se), Department of Cell and Molecular Biology, Biomedicinskt centrum, Husargatan 3, 752 37 Uppsala, Sweden. Applications will be evaluated continuously until a suitable candidate has been identified.

Starting Date: As soon as possible.

Additional info: The Biomedical Center offers a superb interdisciplinary working environment located just outside of central Uppsala. Uppsala is located 40 minutes north of Stockholm by train, 20 minutes from Stockholm's international airport.

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

policy Daniel Jones <daniel.jones@icm.uu.se>

UppsalaU SystematicMycology

We offer a 2-year postdoc position within a project financed by the Swedish Taxonomy Initiative at the Systematic Biology program, Uppsala University, Uppsala, Sweden.

The project aim to improve the knowledge about the species diversity in the order Atheliales and to sort the species into a taxonomic system based on evolutionary relations. A special focus will be given to the genus *Athelia* for which previous studies have identified difficulties to delimit species based on morphology. The position includes evaluating species boundaries using molecular methods and to evaluate any morphological differences based on those analyses. It will therefore include field work to collect material, and to search for new species within the order, and contact with herbaria for loans of materials. It includes lab work for extraction and amplification of DNA and also morphological studies including microscopy, and depiction of morphological characteristics. Since the present classification into genera often do not represent evolutionary relations, the classification will be revised which will require phylogenetic analyses.

The deadline for application is April 4. More information and a link to the application system can be found at: <https://uu.se/en/about-uu/join-us/details/?positionId=478900> Ni har kontakt med oss på Uppsala universitet med e-post innebär det att vi behandlar dina personuppgifter. För att läsa mer om hur vi gör det kan du läsa här: <http://www.uu.se/om-uu/dataskydd-personuppgifter/> E-mailing Uppsala University means that we will process your personal data. For more information on how this is performed, please read here: <http://www.uu.se/en/about-uu/data-protection-policy> Martin Ryberg <martin.ryberg@ebc.uu.se> Martin Ryberg <martin.ryberg@ebc.uu.se>

UPuertoRico 2 ButterflyEvolution

University of Puerto Rico, Río Piedras: Butterfly wing color pattern evolutionary and functional genomics

Two Postdocs positions in evolutionary and functional genomics.

The Papa's lab (<https://www.riccardopapalab.com>) is in San Juan, the capital of the beautiful island of Puerto Rico, which provides amazing research opportunities and lifestyle. The selected postdoc will explore the genetic and epigenetic source of variation for natural selection and adaptation to work upon. This research project will investigate what governs patterns diversity, what limits it, and what promotes its potentials. To do so, methods of pure genetics, phylogenetics, epigenetics, single cell genomics, developmental cell biology, and functional genomics will be utilized. The final goal is to characterize the molecular architecture of single cells/scales of unique colors.

Two NSF-funded postdoctoral positions are available in the laboratory of Dr. Riccardo Papa in the Department of Biology of the University of Puerto Rico, Río Piedras Campus. These positions are looking to increase diversity in the research group and foster collaboration and knowledge transfer. The laboratory has a rich background in studying the natural history of Heliconius butterflies, with a genomic, evolutionary developmental focus. Our research is using high-end genomic approaches and functional assays to characterize the genetic and epigenetic architecture of color pattern development in butterflies. We are using whole genome resequencing, ATAC-seq, ChIP-seq and CRISPR to better understand the pathways involved in color pattern development and their evolution. We have enough data to test strong hypotheses in butterfly wing color pattern development using a single cell genomic approach. Our lab has state of the art genomic technology which includes, an Illumina Miseq, an Illumina NextSeq 2000, and a single cell 10X Chromium among many other equipment. We generate all the data locally and can perform CRISPR experiments using our butterfly rearing facility.

SPECIAL REQUISITES

The candidate must have completed a Ph.D. degree, preferably in the areas of genomics, population genetics, developmental biology and or computational biology. The position requires skills in the areas of genomics,

development and computational biology, and a strong record of research in these areas. Being highly motivated will be necessary to collaborate with National and International research groups. The work will focus on bioinformatics methods to analyze large genomic and epigenomic data. Specifically, this includes generating single cell genomic data and building pipelines to assemble and analyze such dataset (epigenetic and expression) to determine cell fate and butterfly's wing color pattern development with a precision never available before. Candidates from Minority Serving Institutions (MSI) are strongly encouraged to apply for the position

HOW TO APPLY

To apply, please submit in one PDF file: (i) one page cover letter including motivation and research interests, (ii) a CV, and (iii) contact information for two references electronically, to riccardo.papa@upr.edu and rpapa.lab@gmail.com. Review of applications will start immediately and will continue until the position is filled. Job can start as early as July 2022.

*The selected candidate will be required to present official credentials from all his/her academic degrees.

This job opportunity is financed with external funding and does not consider the expectation of a probation position.

Riccardo Papa Full Professor, Department of Biology Director of High Throughput Sequencing Facility University of Puerto Rico - Río Piedras Julio García Díaz (JGD) 213 Río Piedras, San Juan PR 00931

tell: 787-764-0000 ext 4827(office) or 7764(lab) fax: 787-764-3875 Lab WebPage (under construction): <http://www.wix.com/ricpapa/Papa-Riccardo-Lab> Topics 2013 (Genomic Frontiers in Modern biology): <http://biotopicsuprrp.weebly.com/index.html> Riccardo Papa <rpapa.lab@gmail.com>

URomeTorVergata MetagenomicsAncientCats

Post-doctoral position on metagenomics of ancient cats (*Felis silvestris*)

Deadline: 30/03/2022, 12:00

Project description.

The Centre of Molecular Anthropology of the University of Rome Tor Vergata is looking for a two-year

postdoctoral researcher. The fellow will work on the ERC-funded project FELIX (<https://www.ercfelix.com>) to conduct metagenomic analyses on ancient cat remains. The goal is to analyze shotgun sequencing data from historic and prehistoric specimens to detect the presence of microbial pathogens and reconstruct ancient microbial communities from dental calculus samples. By investigating a complementary set of unique and as yet unexplored multidisciplinary data, from paleogenomics to stable isotope analysis, the overall objective of Felix is to shed light on the evolution of the cat-human relationship across a wide spectrum of socio-cultural contexts, from prehistoric farming communities to the ancient Egyptian and Medieval societies.

Main responsibilities.

We are seeking highly motivated applicants with a strong interest in inter-disciplinary research. Key tasks of the position include computational analysis of high-throughput DNA sequencing data from archaeological samples, screening shotgun sequencing data for microbial species with taxonomic classifiers (taxonomic profiling, taxonomic binning), reconstruction and analysis of whole ancient and modern microbial genomes (from variant calling to phylogenetic analysis), development of targeted enrichment assays. There will be also the possibility to participate to side projects on ancient human dental calculus conducted in the team. We seek personal skills such as collaborative spirit, ability to work independently and take own-initiatives. The fellow is also expected to participate in the daily activities of research team and is expected to be fluent in English and contribute with written and oral dissemination of research.

Requirements.

Applicants must hold a degree and PhD in biology, bioinformatics or similar. Experience in metagenomic analysis of ancient samples, microbial genomics and/or phylogenetics is essential. Knowledge of Bash, Python, R and other programming languages. Experience of work in HPC clusters and job scheduling systems (slurm). Demonstrated ability to present research results in international academic contexts and write papers in peer-reviewed journals. Experience with ancient DNA wet lab analyses is desirable but not necessary.

Terms of employment.

The position involves full-time employment for a maximum of two years, with the possibility of extension under special circumstances.

About the host team. The Centre of Molecular Anthropology for the study of Ancient DNA in the Department of Biology of the University of Rome Tor Vergata is a

friendly and growing environment, conducting research in biomolecular archaeology thorough the analysis of ancient DNA and stable isotopes.

The Centre features state-of-the-art dedicated laboratory for aDNA in the monumental complex 'Villa Mondragone', next to the town Frascati (<https://www.villamondragone.it>).

Modern DNA and post-PCR laboratories are available in separate buildings at the Department of Biology (<https://g.page/scienzeturvergata?share>).

Additional information.

Applications must be submitted on the Italian Cineca Pica platform only: <https://pica.cineca.it/uniroma2/f3-2022-0002/> For support in the application procedure and further information please contact Claudio Ottoni (claudio.ottoni@uniroma2.it) or Tullia Di Corcia (tullia.di.corcia@uniroma2.it)

Claudio Ottoni <claudio.ottoni@uniroma2.it>

USGS Flagstaff Plant Population Genetics

The U.S. Geological Survey Southwest Biological Science Center in Flagstaff, AZ is seeking an Ecologist who is a recent graduate to assist with genomic investigations of common and rare plant species across the Intermountain West. Projects involve population/landscape genomic, phylogeographic, and taxonomic inferences to support restoration and conservation management needs for federal partners. Common analytical techniques include demographic modeling, estimating impacts of environments on adaptation, and genomic cline analyses; opportunities for methodological development may also be available. Many of the data are in hand and the researcher will immediately contribute to all stages of project development/execution. The researcher will predominantly work in an office setting, but some fieldwork may be possible. The pay rate will be consistent with a GS-11 Ecologist (\$31.83/hour) and the position is eligible for benefits. The candidate must be a U.S. citizen, pass a federal background check and a pre-employment physical, and have a clean driving record. Representative research projects are described at <https://www.usgs.gov/sbsc/gwrc> Expectations: - Authorship/co-authorship of multiple peer-reviewed publications - Work well in a collaborative setting - Consistent and excellent attention to detail -

Work in Flagstaff, AZ

Minimum qualifications: - PhD - Experience with next-generation sequencing protocols and data pipelines - Programming and data analysis skills in R - Ability to manage/work with big data (genetic and climate) - Experience with genetic analyses applicable to SNPs, for example: Stacks, ipyrad, genetic structure/assignment tests, PCA and sPCA, fastsimcoal2/dadi, LFMM, RDA, Procrustes, EEMS, Bedassle, etc. - Excellent writing skills

Desired qualifications: - Demonstrated ability to publish in peer-reviewed journals - Knowledge of western U.S. plant communities and natural history - Working knowledge of mixed models and field-based climate manipulation experimental designs - Conversant in restoration and conservation topics pertinent to the western U.S. - Experience with other programming/scripting languages (Python, Perl, C++, shell, etc.) - Experience working with remote high-performance computing clusters (managed by slurm)

If interested, please submit a cover letter and CV (including contact information for three references) to Rob Massatti (rmassatti@usgs.gov). This position is open until filled.

“Massatti, Robert T” <rmassatti@usgs.gov>

USouthBohemia EvolutionaryEcol

We are a research campus with a strong tradition in biosciences focused on complex ecological, evolutionary & developmental aspects of LIFE. Faculty of Science, University of South Bohemia in Āeské BudĀjovice is looking for excellent candidates for a position of

Post-doctoral Researcher in Polar Evolutionary Ecology Centre for Polar Ecology (CPE) (<https://www.prf.jcu.cz/en/cpe.html>) at the Faculty of Sciences, University of South Bohemia seeks to appoint a junior-level scientist as a post-doctoral researcher in a new group led by Dr VojtĀch Kubelka (<https://www.prf.jcu.cz/en/cpe/contacts/people/kubelka.html>) and focusing on evolutionary ecology of birds, climate change biology, parasitology, predator-prey interactions and animal migration (<https://www.prf.jcu.cz/en/cpe/about/research-group/zoology.html>). The exact position targeting is negotiable according to ambitions of the successful applicant.

CPE aims promotes and facilitate research and educa-

tion in polar ecological sciences at the Faculty of Science, University of South Bohemia in Āeské BudĀjovice. The main goal of CPE is multi-disciplinary research focused on Arctic and polar ecology, zoology, parasitology, microbiology and botany. More information at: <https://www.prf.jcu.cz/en/cpe.html>. We offer access to and support from the Czech Arctic research station on Svalbard as well as the support from international network of more than 40 research teams distributed globally and connected via ĀLVONAL Shorebird Science project (<https://elvonashorebirds.com/home/>). The Svalbard infrastructure consists of a year-round research station in Longyearbyen, field station in Petuniabukta and a research motor-sail vessel operational all-around Svalbard.

Successful candidate will be promoted to apply for support from faculty budget and will be expected to seek for own research funding applying to national and as well to European founding agencies.

What would be your main responsibilities

Organize and carry out field work in a foreign country/countries, execute own polar research with international cooperationCoordinate data collection and analyses, preparation of publicationsSeek funding for research in close collaboration with team membersSupervise students and research assistantsPresent and promote the results at conferences and seminarsCarry out other scientific and/or academic activities that are important for the success of the project

What we offer

Two-years position with the possibility of extensionExcellent instruments equipment and multiple research platforms within CPE and Faculty of Sciences, University of South Bohemia in Āeské BudĀjoviceAccess to the Czech Arctic research station on SvalbardExtensive international networking and mentoring opportunities via ĀLVONAL Shorebird Science project (<https://elvonashorebirds.com/home/>)Full support for own research funding applicationsEnglish speaking, stimulating & friendly international research environmentHR Award certificate, jcu.cz/about-the-university/development/hr-award-hrs4rProfessional administration support and help with all personal, economic, legal, project, IT, intellectual property needsFlexible working time, 5 weeks of vacationMeals allowance, special mobile services, university kindergartenWork-life balance in a historical middle-sized university city, cz/en/

Competitive candidates are expected to have

PhD in evolutionary biology, behavioural ecology, zoology, or relevant field of life sciencesSolid knowledge

in at least two of those fields: evolutionary ecology, climate change biology, parasitology, predator-prey interactions and animal migration Experience in carrying out or supervising international research projects 3+ years hands-on experiences in basic research, ideally direct experience with Arctic or polar/alpine research Interest in long-term field research using Czech Arctic research station facilities on Svalbard Good skills in statistical modelling, advanced level in using R Strong record of success conducting research and scholarly activities, including publications in peer-reviewed journals Demonstrated project management experience and leadership skills Experience with large data sets reading, analysis and presentation Budgetary and general administrative skills Excellent interpersonal skills and ability to collaborate within a team-based environment, ability to work effectively both in a team and independently Experience in bird ringing, and preferably a ringing licence is welcomed Valid driving licence

Application:

Interested candidates should contact Vojtěch Kubelka

— / —

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>

UToronto Urban Biodiversity

Post-Doc: The Centre for Urban Environments (CUE) (www.urbanenvironment.ca) at the University of Toronto Mississauga (UTM) seeks applications for a fully-funded one-year CUE Post-doctoral Fellowship. The topic of research by the CUE post-doc is open to the study on urban environments on any topic in the natural sciences, or research that bridges natural sciences with social sciences and humanities.

Application deadline: March 17, 2022

Start date: Summer/Fall 2022

For more information see: <https://www.utm.utoronto.ca/cue/cue-initiatives/cue-post-doctoral-fellowship> Sanya Wedemier-Graham <sanya.wedemiergraham@utoronto.ca>

Washington State University Evolutionary Modelling

POSTDOCTORAL RESEARCHER

Washington State University

School of Biological Sciences

We are seeking a postdoctoral researcher with expertise in evolutionary modeling to join our diverse, international team studying Tasmanian devils and Tasmanian devil facial tumor disease, a transmissible cancer. This NSF-funded collaboration builds on over 20 years of mark-recapture studies tracking the spread of the unique transmissible tumor across Tasmania and consequent endangerment of the iconic Tasmanian devil. As the top predator in Tasmania, devil declines have altered the native mammal community via trophic cascades. This project bridges ecology and evolution to predict future community dynamics that result from devil declines. The successful applicant will have an unprecedented opportunity to analyze tens of thousands of mark-recapture records, thousands of devil genotypes and hundreds of tumor genomes sampled both before and after epizootics to: model coevolutionary dynamics, predict phenotypic evolution of Tasmanian devils aided by pedigree reconstruction, and assist conservation decision-making by modeling alternative management scenarios. The position is centered in the lab of Dr. Andrew Storfer (<https://storfer-lab.org/>) at Washington State University, with the possibility for scholarly exchanges with University of South Florida, University of Tasmania and Griffith University in Australia.

Review of applications will begin on April 15, 2022 and continue until the position is filled. A Ph.D. in Biology or a related discipline, combined with strong quantitative skills and modeling experience is required. Desired qualities also include experience in host-pathogen systems, population genetics/genomics analysis, and quantitative genetics modeling. Start date is negotiable but is anticipated to begin by September 1, 2022. Salary and benefits are competitive. Position is for 1 year, with continuation possible for additional year(s). To apply, please send in pdf format a CV, and names, addresses and email addresses of 3 references, a research statement, and up to 3 representative reprints via email to: Andrew Storfer (astorfer@wsu.edu). Inquiries prior to application are also encouraged. *WSU is an Equal

Opportunity/Affirmative Action/ADA educator and employer.*

Andrew Storfer, PhD Eastlick Distinguished Professor School of Biological Sciences Washington State University Pullman, WA 99164-4236 (509) 335-7922 asstorfer@wsu.edu www.storfer-lab.org “Storfer, Andrew” <astorfer@wsu.edu>

Yale University offers researchers and staff competitive salaries and a generous package of benefits. Yale has a thriving and growing community of young scholars in ecology, evolution, and global change science in the EEB Department, the Yale Institute for Biospheric Studies, the Peabody Museum, and the Yale School of the Environment. New Haven is renowned for its classic Ivy League setting, 75 miles northeast of New York City.

“Jetz, Walter” <walter.jetz@yale.edu>

Yale 6 Biodiversity Conservation

Postdoc positions in Quantitative Conservation, Ecology, and Global Biodiversity Science

As part of a new cohort hire, six postdoctoral positions are available in association with the Yale Center for Biodiversity and Global Change (BGC Center), the Max Planck-Yale Center for Biodiversity Movement and Global Change, and Map of Life. These are 2-3-year positions, some with the potential for longer-term (non-ladder faculty) employment. <https://bgc.yale.edu> Quantitative Conservation Science - <https://bgc.yale.edu/opportunities/pd-conservation> Global Macroecology and Macroevolution - <https://bgc.yale.edu/opportunities/pd-macroecology> Quantitative Ecology - <https://bgc.yale.edu/opportunities/pd-quantitativeecology> Animal Movement and Global Change - <https://bgc.yale.edu/opportunities/pd-mpyc> Global Marine Biodiversity Conservation - <https://bgc.yale.edu/opportunities/pd-marine> Global Biodiversity of Vascular Plants - <https://bgc.yale.edu/opportunities/pd-plants> Diversity, equity, and inclusion are core values of the Center, and we are committed to ensuring our workplace reflects those values. As such, we strongly encourage applications from researchers identifying as a member of a historically marginalized group.

The Yale BGC Center connects biodiversity scientists from across campus and supports research and training around the use of new technologies and data flows for model-based inference and prediction of biodiversity change. One flagship BGC Center project is Map of Life. Other initiatives associated with the Center include the integration of spatial, phylogenetic, and functional dimensions of biodiversity (e.g., VertLife, ButterflyNet), NASA-supported remote sensing-informed layers and tools for biodiversity modelling EarthEnv, biodiversity movement analysis (through the Max-Planck Yale Center), and the Wildlife Insights initiative for camera trapping data.

YaleU Population Genomics

A position as a postdoctoral researcher/fellow in population and evolutionary genetics is available at the Department of Ecology and Evolutionary Biology, Yale University, in Dr. Adalgisa (Gisella) Caccone research group.

Project description: This project is looking at adaptive and non-adaptive mechanisms of phenotypic evolution in response to urbanization in the Eastern Gray Squirrel. Phenotypic divergence between cities and adjacent rural areas has been well documented but disentangling the roles of adaptive and non-adaptive drivers of divergence for heritable traits has proved challenging. Environmental differences between urban and rural areas can cause divergent natural selection, but phenotypic divergence can also result from strong genetic drift due to founder effects and small population size in cities. Gene flow between urban and rural areas should reduce phenotypic divergence, but the strength of this homogenizing force likely varies among cities due to differences in landscape structure. Studies of phenotypic variation and population genetic structure across multiple cities are needed to advance our understanding of how urbanization causes trait evolution via adaptive and non-adaptive pathways. This project seeks to fill this knowledge gap.

This project is funded by a NSF grant. The Yale PI is Adalgisa Caccone (<https://caccone.yale.edu/>). The project is in collaboration with the research groups of Bradley Cosentino (<https://landscapemosaic.org/-index.html>) and James Gibbs (<https://www.esf.edu/-EFB/gibbs>).

Duties: The postdoctoral hire will be responsible for collecting and analyzing population genomic data, including ddRADSeq and whole genome data.

Qualifications required: For this position, the candidate must hold a PhD degree within evolutionary biology or

another relevant field, with experience in population and landscape genomics and phylogeography. They need to be able to express themselves fluently in spoken and written English, work independently, thrive in a multicultural and collaborative environment, and willing to support the training of undergraduate and graduate students.

You are welcome to submit your application by April 10, 2022. Applications will be reviewed as they come in. The tentative start of the position is August/September 2022. To apply please send a CV and a description of your interest and qualifications and how they fit with the job description.

For inquiries please contact: Adalgisa (Gisella) Caccone (Adalgisa. Caccone@yale.edu)

Adalgisa Caccone Senior Research Scientist ESC 140 Ecology and Evolutionary Biology Yale University 21 Sachem St. New Haven, CT 06520 Tel 203-432-5259 fax 203-432-7394

“Caccone, Adalgisa” <adalgisa.caccone@yale.edu>

adalgisa.caccone@yale.edu

YaleU

TortoiseConservationGenomics

A position as a postdoctoral researcher/fellow in population and evolutionary genomics is available at the Department of Ecology and Evolutionary Biology, Yale University, in Dr. Adalgisa (Gisella) Caccone research group.

Project Title: Giant Galapagos tortoises evolutionary,

phylogeography, and conservation genomics using extant and extinct taxa.

Project Description: We are using genomic methods to reconstruct the evolutionary history of Giant Galapagos tortoises using data from extant and extinct populations and species. This is part of a long-term research agenda on this iconic group of organisms carried out in collaboration with multiple research institutions and foundations.

Duties: The postdoctoral hire will be responsible for collecting and analyzing population genomic data from extant and extinct taxa for a variety of goals including reconstructing the colonization history of the group, looking at patterns of recent and historical introgression and demographic dynamics, and carrying out species delimitation analyses to evaluate taxonomic ranks.

Qualifications required: For this position, the candidate must hold a PhD degree within evolutionary biology or another relevant field, with experience in population, phylogeography, and conservation genomics. Experience in aDNA methods is preferred. They need to be able to express themselves fluently in spoken and written English, work independently, thrive in a multicultural and collaborative environment, and willing to support the training of undergraduate and graduate students.

You are welcome to submit your application by April 15, 2022. Applications will be reviewed as they come in. The tentative start of the position is July 2022. Funding is for two years. To apply please send a CV and a description of your interest and qualifications and how they fit with the job description.

For inquiries please contact: Adalgisa (Gisella) Caccone (Adalgisa. Caccone@yale.edu)

“Caccone, Adalgisa” <adalgisa.caccone@yale.edu>

adalgisa.caccone@yale.edu

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Arnold Arboretum Summer Course 2022 - Plant Morphology: Linking Phenotype and Function to Development

This two-week short course (June 6 - 16, 2022) will be taught as an intense lecture, laboratory, and living collections learning experience. The course will be based at the Weld Hill Research Building at the Arnold Arboretum of Harvard University in Boston (Massachusetts; USA), which offers a state-of-the-art microscopy laboratory for teaching and sits amid the 15,000+ living specimens of more than 2,200 species at the Arnold Arboretum.

This course will provide a working knowledge of concepts that are central to understanding the developmental basis for the remarkable structural and functional diversity of plants. Topics include developmental dynamics, evolutionary diversification, and ecological and physiological function. Ultimately, this course aims to provide the intellectual skills necessary to interpret the vast array of morphologies that exist among plants. Each day will consist of lecture and laboratory sessions, with ample opportunity to explore the Arnold Arboretum.

There are no course fees, room and board are provided, and funds are available to help defray costs of participant travel.

Course Instructors: Pamela Diggle (University of Connecticut), William (Ned) Friedman (Harvard University), and Cynthia Jones (University of Connecticut).

Application Deadline: Applications must be submitted by 11:30 pm March 31st, 2022. Application instructions are available on the course website: <https://arboretum.harvard.edu/research/programs-and-opportunities/summer-short-course/> Eligibility: microMORPH summer short courses are open to postdoctoral researchers, graduate students, and un-

dergraduates in their final year of study (who have been admitted to a graduate or professional program for the fall of 2022). Non-US-citizens are welcome to apply (but are responsible for obtaining the appropriate visa to be able to attend the course).

How to Apply: For full application instructions (including list of required documents) and to submit applications, please visit the course website (<https://arboretum.harvard.edu/research/programs-and-opportunities/summer-short-course/>).

Questions or Comments? Contact Pamela Diggle at pamela.diggle@uconn.edu

“Diggle, Pamela” <pamela.diggle@uconn.edu>

Harvard PlantMorphology Jun6-16

Application deadline approaching!

Arnold Arboretum Summer Course 2022 - Plant Morphology: Linking Phenotype and Function to Development

This two-week short course (June 6 - 16, 2022) will be taught as an intense lecture, laboratory, and living collections learning experience. The course will be based at the Weld Hill Research Building at the Arnold Arboretum of Harvard University in Boston (Massachusetts; USA), which offers a state-of-the-art microscopy laboratory for teaching and sits amid the 15,000+ living specimens of more than 2,200 species at the Arnold Arboretum.

This course will provide a working knowledge of concepts that are central to understanding the developmental basis for the remarkable structural and functional diversity of plants. Topics include developmental dynamics, evolutionary diversification, and ecological and physiological function. Ultimately, this course aims to provide the intellectual skills necessary to interpret the vast array of morphologies that exist among plants. Each day will consist of lecture and laboratory sessions, with ample

opportunity to explore the Arnold Arboretum.

There are no course fees, room and board are provided, and funds are available to help defray costs of participant travel.

Course Instructors: Pamela Diggle (University of Connecticut), William (Ned) Friedman (Harvard University), and Cynthia Jones (University of Connecticut).

Application Deadline: Applications must be submitted by 11:30 pm March 31st, 2022. Application instructions are available on the course website: <https://arboretum.harvard.edu/research/-programs-and-opportunities/summer-short-course/> Eligibility: microMORPH summer short courses are open to postdoctoral researchers, graduate students, and undergraduates in their final year of study (who have been admitted to a graduate or professional program for the fall of 2022). Non-US-citizens are welcome to apply (but are responsible for obtaining the appropriate visa to be able to attend the course).

How to Apply: For full application instructions (including list of required documents) and to submit applications, please visit the course website (<https://arboretum.harvard.edu/research/programs-and-opportunities/summer-short-course/>).

Questions or Comments? Contact Pamela Diggle at pamela.diggle@uconn.edu

“Diggle, Pamela” <pamela.diggle@uconn.edu>

MexicoCity GenotypingBioinformatics Jun13-18,

Dear colleagues,

The Institute of Ecology of the National Autonomous University of Mexico (UNAM) is pleased to announce that it will hold a week-long bioinformatics workshop from June 13-18. The workshop will include an overview of reduced representation sequencing methods to address genomic, phylogenomic, and population genomic questions with an emphasis on plant genomes. Students working in any study system are encouraged to attend.

The workshop is primarily aimed at first-semester graduate students, advanced undergraduates, and postdocs who wish to gain expertise in this area. Topics to be covered include fundamental UNIX skills, sequencing strategies, data quality assessment and data filtering, automated assembly and annotation of plastid and mi-

tochondrial genomes, RADseq, and sequence capture. The language of instruction will be English, but with significant support for Spanish language speakers. Students with proficiency in both languages are particularly encouraged to apply.

As an integral part of the workshop, scientists from the United States and Mexico will deliver lectures describing how these approaches are being used to address different evolutionary problems in the Agavoideae (Agaves, Yuccas, and allied genera). Speakers will include: Mariela Clara Arteaga (Center for Graduate Studies and Scientific Research of Ensenada), Luis Eguiarte (UNAM), Karolina Heyduk (University of Hawaii), James Leebens Mack (University of Georgia), Michael McKain (University of Alabama), Jorge Nieto Solano (UNAM), Christopher Smith (Willamette University), and Ella Viñez (UNAM). Students are strongly encouraged to present posters describing their research or work in progress on any topic.

The course is free, but due to Covid restrictions workshop attendance is strictly limited to 30 students. To register for the workshop, send an email before April 1 to: csmith@willamette.edu. Applicants should include a brief explanation of why they wish to attend the workshop and how it will help them further their career goals.

Travel funding is likely to be available for a small number of students and postdocs with financial need. To request travel funds, please include in the registration email an explanation of your financial needs, listing your current scholarships, TAships and RAships, a description of travel funding available from other sources, and an estimate of transportation costs, including price quotes if possible. The decision of which students to support will depend on costs and the amount of funding available.

Sincerely,

Christopher Irwin Smith *He/His/Him (Or any respectful pronouns)* Professor of Biology Willamette University Salem, OR 97301 ph: 503-370-6181 fax: 503-375-5425

Joshua Tree Genome Project. JoshuaTreeGenome.org
Christopher Smith <csmith@willamette.edu>

MountainLakeBiolStation EvolutionaryBiol Jun12-19

Register now for the Evolutionary Biology Graduate Student Workshop at Mountain Lake Biological Station!

June 12-19, 2022 Registration Deadline: May 27, 2022 Limited to 16 participants. Location: Mountain Lake Biological Station, 240 Salt Pond Cir., Pembroke, VA 24136.

A six-day workshop on evolutionary biology for early career graduate students. You'll have the time and support to think, talk, and write deeply about the evolutionary questions that most excite you. Led by Amanda K Gibson, Jeremy Draghi, and Idelle Cooper.

Cost: \$510.00 More information and registration here: <https://mlbs.virginia.edu/evolutionary-biology-workshop> Amanda Kyle Gibson, Ph.D. Assistant Professor (she/her)

Physical Life Sciences Building, RM 114 Department of Biology University of Virginia Charlottesville, VA

Email: akg5nq@virginia.edu Website: <https://coevolving.org/> "Gibson, Amanda K (akg5nq)" <akg5nq@virginia.edu>

NewHampshire EvolutionInChangingSeas Aug2022

The Research Coordinated Network for Evolution in Changing Seas (RCN-ECS) is an NSF-funded network of marine scientists, evolutionary biologists, and oceanographers working to develop integrated frameworks for studying adaptation to ocean change.

Applications are now open for this summer's training and integration workshop at Shoals Marine Laboratory from August 16 to 19, 2022. Please apply here <https://rcn-ecs.github.io/WorkingGroups/> by April 5. We aim to bring together researchers with expertise in marine science, evolutionary biology, and oceanography, with the objective of providing training and mentorship opportunities for early-career researchers. The format will include presentations and tutorials. For more informa-

tion on topics that will be covered see: <https://rcn-ecs.github.io/WorkingGroups/> Transportation to and from Shoals Marine Lab is via their vessel, which will run on August 16 and August 19. Applicants should plan to stay for the entire duration of the workshop. Also, the workshop will be in a hybrid format. The internet at Shoals is typically excellent, and all talks and tutorials will be broadcast online.

Funding for this workshop comes from the National Science Foundation. Participants who travel from within the US or its territories, and have a SSN or TID, will be reimbursed for travel to and from the workshop. Unfortunately, no funds are available to reimburse researchers for travel from other countries. However, the workshop is free and all workshop participants will have housing and food provided for them during the workshop.

We understand that certain individuals may have special circumstances that may make it difficult for them to participate in the workshop (e.g. pregnancy, young children, disability). We encourage all individuals to apply regardless of special circumstances, as we are willing to work with participants to accommodate them if they are accepted. If you have any questions about whether or not we would be able to accommodate your special circumstances, please email us at evolvingseas@gmail.com.

We hope to see you in August, either virtually or in person!

Sincerely, Erik Sotka (on behalf of the Steering Committee of the RCN-ECS)

– Erik Sotka Professor of Biology College of Charleston sotkae.people.cofc.edu

Erik Sotka <eriksotka@gmail.com>

NewMexico UrbanEcoEvolution Aug24-26

We invite evolutionary biologists, ecologists and urban scientists to join us at the Sevilleta Long-Term Ecological Research (LTER) site (New Mexico, US) on August 24-26 to discuss urban eco-evolutionary dynamics across the LTER network, identify new collaborative research, and define best practices for inclusive research that leverages the existing strengths of the LTER network.

As the world becomes increasingly urban, understanding ecological, evolutionary, and eco-evolutionary dynamics will require studies that explicitly assess all habitats-

from wildlands to suburbs to city centers within the context of urbanizing landscapes. In order to meet this emergent research need, we will need long-term studies, collaboration across disciplinary and interdisciplinary boundaries, and experiments that are replicated across broad spatial scales and diverse ecological contexts. The US LTER network is ideally situated to meet this research need and to generate timely and transformative insights that will both advance knowledge in evolutionary ecology and improve predictive capacity in a rapidly urbanizing world.

Briefly, the workshop will follow the following themes:

Day 1: Convergence, integration, and inclusive goals for future urban eco-evolutionary dynamics research across the US LTER network

Day 2: Design an initial trait mapping exercise across multiple biomes and urban contexts surrounding LTER sites

Day 3: Unconference-style idea-fest to identify and develop new projects and collaborations

More information about the meeting and our Research Coordination Network on Urban Eco-Evolutionary Dynamics can be found here: <https://www.urbanecoevo.net/about> If you are interested in joining us, please email Amy Savage (amy.savage@rutgers.edu) by May 01, 2022 with a brief statement of interest in the workshop (no more than 250 words). Participants will be chosen to balance diversity in career stage, field of research, LTER experience, and demographic background.

We are happy to accommodate requests to join the workshop remotely; please include your preference for remote participation in your email response along with your statement of interest.

Funding is available to support travel, accommodation, and food during the workshop. Please indicate your interest in this funding in your email response.

Brian C. Verrelli (bverrelli@vcu.edu)

Online Adaptation Genomics May30-Jun3

Dear all, there are the last seats available for the Physalia course on Adaptation Genomics, which will take place ONLINE from the May 30th to June 3rd

(<https://www.physalia-courses.org/courses-workshops/courseadaptationgenomics/>)

Instructors: Dr. Anna Tigano (UNIVERSITY OF BRITISH COLUMBIA, Canada) and Dr Claire Merot (CNRS, France) and Dr. Gabriela Montejó-Kovacevich (University of Cambridge, UK). This course provides an introduction to the study of the genomic basis of adaptation using population genomics approaches applied to the analysis of both sequence and structural genetic variation. The instructors will guide the participants from the handling of raw genomic data and data exploration (e.g., summary statistics and population structure) up to more advanced methods, including genotype-environment associations based on both sequence and structural variants. Through hands-on exercises, the course will teach basic bioinformatics skills and how to manipulate, visualize and interpret genomic data and patterns. Learning Outcomes 1) Handling genomic data from raw reads to genetic variants 2) Calculating basic population genetic statistics 3) Visualizing genetic population structure 4) Searching for signatures of selection in the genome 5) Accounting for putative structural variants 6) Understanding the potential and the limitations of different methods to study the genomic basis of adaptation Our other online courses: (<https://www.physalia-courses.org/courses-workshops/>) All the best,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
info@physalia-courses.org mobile: +49 17645230846 Follow us on (<https://twitter.com/Physacourses>)

“info@physalia-courses.org”

<info@physalia-

courses.org>

Online
BayesianAnalysesEvolutionaryBiol
Apr4-8

Dear colleagues,

Registration is open for the course Introduction to Bayesian Inference in Practice - 6th edition. This course will be held live online (synchronous). Max 18 participants.

This course is addressed to evolutionary biologists that want to improve their knowledge of Bayesian methods.

Dates: April 4th-8th, 2022.

Instructors: Dr. Daniele Silvestro (University of Gothenburg, Sweden) and Tobias Andermann (University of Gothenburg, Sweden)

Course Overview:

This course is based on the assumption that the easiest way to understand the principles of Bayesian inference and the functioning of the main algorithms is to implement these methods yourself.

The instructor will outline the relevant concepts and basic theory, but the focus of the course will be to learn how to do Bayesian inference in practice. He will show how to implement the most common algorithms to estimate parameters based on posterior probabilities, such as Markov Chain Monte Carlo samplers, and how to build hierarchical models. He will also touch upon hypothesis testing using Bayes factors and Bayesian variable selection.

The course will take a learn-by-doing approach, in which participants will implement their own MCMCs using R or Python (templates for both languages will be provided). After completion of the course, the participants will have gained a better understanding of how the main Bayesian methods are implemented in many programs used in biological research work. Participants will also learn how to model at least basic problems using Bayesian statistics and how to implement the necessary algorithms to solve them.

Participants are expected to have some knowledge of R or Python (each can choose their preferred language), but they will be guided “line-by-line” in writing their script. The aim is that, by the end of the week, each participant will have written their own MCMC - from

scratch! Participants are encouraged to bring own datasets and questions and we will (try to) figure them out during the course and implement scripts to analyze them in a Bayesian framework.

More information and registration at <https://www.transmittingscience.com/courses/statistics-and-bioinformatics/introduction-bayesian-inference-practice/> or writing courses@transmittingscience.com

Best regards

– Soledad De Esteban-Trivigno, PhD Director Transmitting Science www.transmittingscience.com Twitter @SoleDeEsteban Orcid: <https://orcid.org/0000-0002-2049-0890> Under the provisions of current regulations on the protection of personal data, Regulation (EU) 2016/679 of 27 April 2016 (GDPR), we inform you that personal data and email address, collected from the data subject will be used by TRANSMITTING SCIENCE SL to manage communications through email and properly manage the professional relationship with you. The data are obtained based on a contractual relationship or the legitimate interest of the Responsible, likewise the data will be kept as long as there is a mutual interest for it. The data will not be communicated to third parties, except for legal obligations. We inform you that you can request detailed information on the processing as well as exercise your rights of access, rectification, portability and deletion of your data and those of limitation and opposition to its treatment by contacting Calle Gardenia, 2 Urb. Can Claramunt de Piera CP: 08784 (Barcelona) or sending an email to info@transmittingscience.com or <http://transmittingscience.com/additional-terms>. If you consider that the processing does not comply with current legislation, you can complain with the supervisory authority at www.aepd.es. Confidentiality. - The content of this communication, as well as that of all the attached documentation, is confidential and is addressed to the addressee. If you are not the recipient, we request that you indicate this to us and do not communicate its contents to third parties, proceeding to its destruction. Disclaimer of liability. - The sending of this communication does not imply any obligation on the part of the sender to control the absence of viruses, worms, Trojan horses and/or any other harmful computer program, and it corresponds to the recipient to have the necessary hardware and software tools to guarantee both the security of its information system and the detection and elimination of harmful computer programs. TRANSMITTING SCIENCE SL shall not be liable.

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

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

<info@physalia-

Online Bioinformatics Jun20-24

Dear all,

registration is now open for the 3rd edition of the Physalia Summer School in Bioinformatics.

Dates: Online, 20th-24th June

This course will introduce participants into the field of Next Generation Sequencing biology, understanding both the concepts and handling of the data. We will cover a broad range of software and analyses from quality assessment of sequencing runs, through assembling and annotating small genomes, RNAseq and differential gene expression, and phylogenomics with NGS data, using both Illumina and long read data (Nanopore/PacBio).

This course will be accompanied with sessions on the use of the Linux command line, and docker which is the preferred platform for most bioinformatic analyses, as well as software containers, through Docker or Singularity, with particular focus on best practices for reproducibility.

Learning outcomes

Effectively handling NGS data comfortably and in a reliable and reproducible manner

Understanding the strengths and pitfalls of NGS and how to assess quality of data generation and analysis

Hands-on experience of state of the art methods to use NGS in experiments across a range of approaches (genomics, transcriptomics, phylogenomics)

Assessment of strengths and weaknesses of the different DNA sequencing technologies, both short read (Illumina), and long reads (Pacific Bioscience, Oxford Nanopore).

Familiarity with biological sequence analysis in an evolutionary context

Course website: (<https://www.physalia-courses.org/courses-workshops/course68/>)

Our other online courses: (<https://www.physalia-courses.org/courses-workshops/>) All the best,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
info@physalia-courses.org mobile: +49 17645230846 Follow us on (<https://twitter.com/Physacourses>)

Online LandscapeGenetics Aug15-19

ONLINE COURSE -Landscape genetic data analysis using R

<https://www.prstatistics.com/course/landscape-genetic-data-analysis-using-r-lndg05/> 15th - 19th August 2022

Please feel free to share!

There is still 20% off all courses to celebrate the launch of our new site.

<https://www.prstatistics.com/live-courses/> <https://www.prstatistics.com/recorded-courses/> ABOUT THIS COURSE

The term 'landscape genetics' has been applied to studies that integrate ecological context and intervening landscape into population genetic analyses of contemporary processes such as gene flow and migration. This course will cover the basics of both quantitative landscape ecology and population genetics, focusing on how we develop and evaluate spatial/genetic analyses using the R platform.

We will also be scheduling one of our FREE course seminars for this course soon, if you would like to be notified of this please email oliverhooker@prstatistics.com Along with our new website launch we are also introducing some new products and services one of which are FREE course seminars. Each course seminar is based on the course, they are ~30 minutes long including a Q and A session, and will be delivered by the course instructor. Anyone is welcome, even if you have no intention of joining the paid course later on! This is a great way to get a FREE insight into the courses we deliver, to ask the instructors some questions, and to get a better idea of suitability if any of the courses interest you. All of our Free Course Seminars will be archived and made available so if you cannot join live you can request access to the recordings.

<https://www.prstatistics.com/free-seminars/> Please feel free to contact oliverhooker@prstatistics.com with any questions.

We still offer our consultancy services but now also offer private tuition and manuscript revisions.

<https://www.prstatistics.com/additional-products-services/> If you have any questions please email oliverhooker@prstatistics.com

Thanks,

Oliver Hooker PhD. PR statistics

oliverhooker@prstatistics.com

Online Landscape Genomics Jun13-17

Dear all,

registration is now open for the 6th edition of the Landscape Genomics course.

Dates and time: online - June, 13th-17th

15:00 - 18:00 (Berlin time): live lectures and introduction to / review of the practicals4 additional hours: self-guided practicals using annotated R scripts, with live online support from 09:00 to 23:00 (Berlin time)

The course will provide an overview of the type of dataset that can be used for a landscape genomics analysis. Firstly, students will learn how to obtain environmental data from publicly available databases, how to process it with Geographic Information Systems (GIS) and how to use the latter to produce indicators able to describe the characteristics of the landscape. Next, the course will discuss the different approaches to obtain genetic data and subsequently show how to study genetic variation and population structure across space in the R environment. Students will be given an overview of the different statistical approaches to study local adaptation, and will be trained in using two of them, Sambada and LFMM. The course will also cover the critical task of the interpretation and validation of the results. Finally, the course will consider the crucial aspects and good habits to account for when planning a landscape genomics experiment (e.g. sampling design).

Course website: (<https://www.physalia-courses.org/courses-workshops/course17/>)

Here is the full list of our courses and workshops: (<https://www.physalia-courses.org/courses-workshops/>)

Best regards,

Carlo

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low us on (<https://twitter.com/Physacourses>)

["info@physalia-courses.org"](mailto:info@physalia-courses.org)

<info@physalia-courses.org>

Online Metabarcoding Apr4-May1

Metabarcoding <http://uoguelph.ph/metabarcoding> April 4 - May 1, 2022

Online

Instructor: Dr. Dirk Steinke

Shara

Shara Inotay | Manager, Program Development Open Learning and Educational Support | University of Guelph Room010 Johnston Hall | 50 Stone Road E | Guelph ON N1G 2W1 T: 519-824-4120 ext.52913 | E: sinotay@uoguelph.ca | www.opened.uoguelph.ca Shara Inotay <sinotay@uoguelph.ca>

Online Metagenomics Jun13-17

Dear all,

registration is now open for the 5th edition of the course "Metagenomics, metatranscriptomics, and multi'omics for microbial community studies": (<https://www.physalia-courses.org/courses-workshops/course33/>)

Dates: online, 13th-17th June

This course will provide a thorough introduction to microbial community data analysis (metagenomics, metatranscriptomics, and other culture-independent molecular data) through a balanced approach of lectures and hands-on lab sessions. Course participants will learn how to process data from raw meta'omic sequencing files through appropriate bioinformatic methods and approaches for subsequent integrative statistical analyses. Participants are invited to bring their own data to the practical session on the final day or can use publicly available data from the Integrative Human Microbiome Project (HMP2).

Here is the full list of our courses and workshops: (<https://www.physalia-courses.org/courses-workshops/>)

Best regards,

Carlo

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Online Palaeogenomics May16-20

Dear evoldir members,

Transmitting Science is running the LIVE ONLINE course 'Introduction to palaeogenomics - concepts, methods and applications of ancient human and non-human DNA data'.

Instructors: Dr. Marcela Sandoval Velsaco (Universidad Nacional Autónoma de México Mexico) Dr. Jazmín Ramos-Madrigrá (University of Copenhagen, Denmark)

Dates & Times: May 16th-20th, 2022 16:00-21:00 (Madrid time)

Preliminary programme:

1. Introduction to ancient DNA and palaeogenomics - History and development of the field. Contamination and degradation of DNA. Best practices and sampling strategies. Ethical implications of aDNA research
2. Laboratory methods - DNA extraction. Library preparation methods (ds, ss, BEST, BEMT, SC). Sequencing strategies. Best practices.
3. Data preprocessing, particularities of ancient DNA data and basic data quality statistics.
4. Standard and alternative mapping strategies. Overview of palaeogenomics analysis pipelines (e.g. paleomix and eager). Selection of reference genome. Reference bias and strategies to overcome it.
5. aDNA authentication. Damage, error rates and contamination analysis.
6. Analysis of low coverage data using Angsd (potential strategies using genotype likelihoods and pseudo-haploid data)
7. Broad ancestry estimation using NGS tools. Clustering strategies (PCA, Admixture).
8. Phylogenomics (Treemix)

9. Introduction to F-statistics (D-statistics, F3) and Admixture graphs.

For more information and registration: <https://www.transmittingscience.com/courses/genetics-and-genomics/introduction-to-palaeogenomics-concepts-methods-and-applications-of-ancient-dna-data/> Contact: courses@transmittingscience.com <haris.saslis@transmittingscience.com>

All the best,

Haris Saslis, PhD (he/him) Course Coordinator Transmitting Science www.transmittingscience.com Haris Saslis <haris.saslis@gmail.com>

Online ReproducibilityInBioinformatics Jul11-13

Dear all,

registration is now open for the Physalia course Reproducibility in Bioinformatics: (<https://www.physalia-courses.org/courses-workshops/-bioinformatics-reproducibility/>)

Online, 11-13 July 2022 This course aims at increasing awareness and introduces strategies on how to improve reproducibility in bioinformatic analyses. Through a mixture of theoretical blocks and hands-on exercises the instructors will guide participants to develop skills to increase reproducibility of bioinformatic analyses and workflows using containers, versioning and virtual environments. LEARNING OUTCOMES - Basic concepts and techniques for modern reproducible bioinformatics data analyses - Data organization, documentation and software versioning - Setting up and working in virtual software environments - Software containerization strategies and caveats - how to use and build containers - Knowledge of how to use common workflow management systems

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
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"info@physalia-courses.org" <info@physalia-courses.org>

Online RNAseq Apr4-7

The University of Connecticut's Computational Biology Core is offering a workshop on RNA-seq focused on identifying differentially expressed genes using an existing reference genome and annotation.

The workshop will begin with an introduction to high

performance computing using Linux and SLURM, and then cover data quality control, read mapping, quantification of expression, obtaining annotation data from the Ensembl database, exploratory and statistical analysis of expression data and functional enrichment analysis. All scripts will be provided in a public git repository, and recordings of each session will be made available to participants after each day's session.

The workshop will take place over 4 days for three hours each day.

Dates: April 4 - 7 (4 days)

Time (US Eastern): M: 8:30am-12pm T-W-Th: 9.00am - 12.00pm

Location: Online

Cost: \$350 for UConn affiliates, \$475 external

Workshop schedule

Day 1: Introduction to Linux, High performance computing

Day 2: QC, mapping, generating count data

Day 3-4 : Exploratory analysis/QC, statistical analysis, functional enrichment.

Registration

To register, please follow this link: <https://forms.gle/-daCLSmFtDhJQ7ndQA> Workshop FAQ

Who should attend?

Anyone who wants to learn the fundamentals of RNA-seq. Prior course participants have included faculty, post docs, grad students, advanced undergraduates, staff, and industry researchers.

What are the prerequisites?

Prior bioinformatic experience is not required. We have dedicated the first day of workshop to the basics of Linux and high performance computing.

What do I need?

You will need your own laptop to use, have a recent version of R, RStudio installed, and some other applications. We will send you details of software and installation instructions with your registration acknowledgement email.

Can I bring my own data?

We will provide experimental datasets for use during the workshop, as this helps to keep the workshop moving. There will be time, however, to discuss your own datasets and how you might work with them outside of the workshop.

How much does it cost?

The registration fee is \$350/\$475 for UConn affiliated/non-UConn participants.

How do I pay?

The fee is due at the time of registration. UConn affiliates can use KFS accounts. The only other means of payment we currently accept is credit card. Due to some complications we cannot accept international wire transfers at this time.

Where is the workshop?

It will be held on Zoom, and will run from 9:00am to 12:00pm on the dates indicated.

How do I apply?

All registration is "first-come, first-served." There is no application process. Sign up as soon as possible to ensure your place in the workshop.

Do you offer scholarships or tuition waivers?

Yes. For each workshop we offer waivers to up to two attendees without other funding sources. Preference will be given to students from primarily undergraduate institutions, from countries classified by the World Bank as low or middle-income, and those from underrepresented groups. Applicants for waivers may submit a one paragraph justification to cbcsupport@uconn.edu.

Questions?

If you have any questions, please don't hesitate to contact us at cbcsupport@uconn.edu

Noah Reid noah.reid@uconn.edu

Assistant Research Professor Institute for Systems Genomics University of Connecticut

"Reid, Noah" <noah.reid@uconn.edu>

SantaBarbara PolygenicAdaptation Jun13-Jul15

We still have some open slots-if you are interested, please register at:

<https://www.kitp.ucsb.edu/activities/adapt22> only applications received before the end of March will receive full consideration.

Towards an Integrative View of Adaptation: Bridging Population and Quantitative Genetics

Coordinators: Alison Etheridge, Kavita Jain, Christian Schlötterer, and Naomi Wray

Location: KITP Santa Barbara, California

Dates: Jun 13, 2022 - Jul 15, 2022

<https://www.kitp.ucsb.edu/activities/adapt22> The study of adaptive evolution in molecular population genetics and quantitative genetics have remained rather isolated disciplines despite the shared research theme. While quantitative genetics describes adaptation of quantitative traits as a collective effect due to small shifts in the allele frequencies of a large number of underlying genetic loci (polygenic adaptation), molecular population genetics has focused on adaptation due to a small number of favorable loci in which the allele frequencies sweep to fixation. The connection between these two areas became possible when molecular markers were introduced. Since then Quantitative Trait Locus (QTL) mapping and, more recently, Genome-Wide Association Studies (GWAS) developed into powerful approaches to link phenotypes of interest with their genetic basis. Furthermore, stochastic models of evolution that borrow techniques from statistical physics provided a link between the bottom-up and top-down approaches in understanding adaptive dynamics. As a result, it is now becoming increasingly clear that both “sweeps” and “small shifts” are rather the endpoints of a scale than exclusive alternatives.

This program will bring together theoreticians and empiricists to develop the basis for a unified framework of adaptive genetic architectures. The new framework will integrate molecular population genetics and quantitative genetics, addressing three main questions:

1. What are the different adaptive scenarios that need to be distinguished and what are their defining characteristics?

2. What are the key factors that determine these scenarios?

3. How can we develop powerful statistical tests to detect polygenic adaptation from empirical data?

KITP programs provide a fantastic opportunity for scientific exchange and interdisciplinary collaboration.

A typical day starts with 2 lectures and includes ample opportunity for discussion. In the afternoon we will have discussion groups and workshops on specific subtopics as well as bottom up activities of the participants. Long-term participants will be provided office space at KITP. The scientific activities will be accompanied by joint social events such as BBQ, wine tasting or beach volleyball. Social and scientific interactions are facilitated with many long-term participants staying at the Munger Physics Residence.

Because the program encourages scientists to stay as long as possible, KITP has several family friendly measures in place (<https://www.kitp.ucsb.edu/visitors/-before-your-visit/family-fund>).

We are aiming to gather a stimulating group of participating scientists covering the full spectrum from theoreticians to experimentalists. Female scientists and representatives of minority groups are particularly encouraged to apply.

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

phone: +43-1-25077-4300 fax: +43-1-25077-4390 <http://www.vetmeduni.ac.at/en/population-genetics/> Vienna Graduate School of Population Genetics <http://www.popgen-vienna.at> I am using google tools for communication

Christian Schlötterer <schlote@gmail.com>

Smithsonian Meiofauna Diversity Jun13-14

2022 Smithsonian Marine Station (SMS) Meiofauna Diversity and Taxonomy Workshop

Dates: June 13-24, 2022

Location: Smithsonian Marine Station in Fort Pierce, FL

Cost: Free!

Application deadline: March 15, 2022

Website: <https://www.kocotlab.com/meiofauna-diversity-and-taxonomy-workshops.html> Organizers:

Kevin Kocot - University of Alabama, Tuscaloosa

Ashleigh Smythe - Virginia Military Institute

Mentors:

Rick Hochberg - University of Massachusetts Lowell - Gastrotricha & Rotifera

Oleksandr Holovachov - Swedish Museum of Natural History - Nematoda & scientific illustration

Ulf Jondelius - Swedish Museum of Natural History - Acoela & (some) Platyhelminthes

Kevin Kocot - University of Alabama Tuscaloosa - Mollusca, Entoprocta, Hemichordata, & genomics
Francesca Leasi - University of Tennessee Chattanooga - Rotifera & metagenetics/metagenomics

Ashleigh Smythe - Virginia Military Institute - Nematoda

Background:

The term “meiofauna” refers to tiny animals capable of passing through a ~0.5-mm mesh. Many meiofaunal animals are interstitial, meaning they burrow in marine sediments. Several entire phyla (such as kinorhynchs, gastrotrichs, and gnathostomulids), major clades of other invertebrate phyla (especially arthropods, nematodes, annelids and flatworms), and miniaturized representatives of most other animal phyla are meiofaunal. Meiofaunal animals have been estimated to account for half of the biodiversity in complex biotopes such as coral reefs, with most of it associated with sediments. While the great phylum- and class- level diversity of meiofauna is well-known, the species-level diversity remains largely unexplored and undocumented. By some

estimates, the number of species of meiofaunal nematodes alone that waiting to be formally named dwarfs the number of already described meiofaunal species by two orders of magnitude. Morphological studies of meiofauna have led to groundbreaking insights about their evolution, adaptation, and functional biology (e.g., adhesive and sensory structures), as well as fundamental insights into the evolution of the major animal groups in the tree of life. More recently, advances in molecular biology ranging from DNA barcoding to metabarcoding to whole-genome sequencing have accelerated the pace of the study of all aspects of the biology of meiofauna.

Course description:

The overarching goal of this course is to help train the next generation of marine invertebrate taxonomists. Specifically, the course is designed to familiarize participants with the vast biodiversity of marine meiofauna through field and laboratory work. We will take a taxon-survey approach to emphasize the development or enhancement of practical skills essential for collection, identification, characterization, preservation, and molecular analysis of meiofauna. Sampling of diverse habitats near Fort Pierce (e.g., Capron Shoal and local beaches) and the Florida Keys (e.g., coral reefs, rubble fields, mangroves, and beaches) will provide a wealth of specimens of diverse taxa for our investigations. Note that SCUBA-certified participants will have the opportunity to dive recreationally in the Florida Keys at their own expense/risk, but the course will not involve scientific diving.

Morphological laboratory work will emphasize the preparation of specimens for microscopic examination and sorting to the level possible with light microscopy. Participants will have the opportunity to collect specimens of meiofaunal animals for their own research (if desired). Participants will also be expected to help compile and contribute specimens for DNA barcoding and transcriptome sequencing (see below), species lists, images, and metadata that will be released public databases.

Molecular laboratory work will include training in basic molecular lab skills and DNA barcoding for participants not already familiar with these techniques. Subsequently, participants will learn transcriptome (cDNA) and sequencing library preparation techniques that can be used on single meiofaunal animals. Each participant will have the opportunity to sequence at least one transcriptome of an organism of interest as part of the course (data will unfortunately not be available until after the course is over).

Due to space constraints, the course is limited to just 8 students. We use the term “student” broadly and will consider applicants at diverse career stages interested in

studying meiofauna. Please note that more workshops are planned for other locations in the next couple of years so there will be other opportunities for applicants not able to join this workshop in the near future.

How to apply:

Send your CV and a 1-2 page statement describing your background and reasons for applying to take the course to Dr. Kevin Kocot at kmkocot@ua.edu before March 15, 2022. Please be sure to describe your

— / —

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>

SummerInstStatGenetics EvolGenetics Jul11-29

From: Bruce S Weir Sent: Tuesday, March 15, 2022 1:59 PM To: Golding@McMaster.CA Subject: SISG Registration and Scholarship applications now open

Registration is now open for the 28th edition of the Summer Institute in Statistical Genetics, July 11-29. This is a series of half-week on-line courses covering many areas of evolutionary, population and quantitative genetics. Details are available at <https://si.biostat.washington.edu/about/sisg> Graduate students attending US institutions may also apply for scholarships for up to three modules.

Bruce Bsweir@uw.edu

Bruce S Weir <bsweir@uw.edu>

UPorto PlantEvolutionaryGenomics May9-13

Dear all,

We are pleased to announce that a Training and Research Workshop in “Evolutionary genomics for plant models and crops” will take place at CIBIO-InBIO/BIOPOLIS, Campus de Vairão, University of Porto, Portugal, from 9 to 13 May 2022.

This workshop is meant for PhD students but will also be opened to Master students and post-docs. It will present major on-going research topics in plant evolutionary genomics, covering both methodological and biological questions, fundamental and applied perspectives, model plants and crops.

Each theme (day) will be covered by 2 talks given by international specialists and a round table with both speakers moderated by an in-house researcher from the field.

Talks will be 1h30 research-oriented lectures (with 30 min of a general/large scope introduction on the subject).

A lot of interaction is expected during these lectures: questions will be asked during the talks and at the round table.

The workshop is also meant to be a platform for connecting students and labs in this field, internationally.

Registration: Priority will be given for PhD students of Program (FCUP and FCUL) and from the University of Montpellier, but students from all over the world are most welcome.

Registration deadline: March 31, 2022

All applicants will be notified about whether they are accepted until April 6, 2022 95 euro (students) | 200 euro (other participants)

Participation is free of charge for BIODIV and Univ. of Montpellier students. The program, practical information and registration platform can be found here: <https://cibio.up.pt/en/events/training-and-research-workshop-in-evolutionary-genomics-for-plant-models-and-crops/> If you have any questions you may contact us by mail at: post.graduation@cibio.up.pt

Best regards,

Raquel Tavares

Raquel Tavares Principal Investigator

Associação BIOPOLIS CIBIO - Centro de Investigação em Biodiversidade e Recursos Genéticos, Rua Padre Armando Quintas nº7 | 4485-661 Vairão, PORTUGAL

Tel: +351 252 660 413 Mob: +351 960 328 063 +33 6 81 48 65 41

Raquel Tavares <raquel.tavares@cibio.up.pt>

Vairao-Porto PlantGenomics May9-13

The registration deadline is approaching (31 March) and we still have some places left!

Dear all, We are pleased to announce that a Training and Research Workshop in “Evolutionary genomics for plant models and crops” will take place at CIBIO-InBIO/BIOPOLIS, Campus de Vairão, University of Porto, Portugal, from 9 to 13 May 2022. This workshop is meant for PhD students but will also be opened to Master students and post-docs. It will present major on-going research topics in plant evolutionary genomics, covering both methodological and biological questions, fundamental and applied perspectives, model plants and crops. Each theme (day) will be covered by 2 talks given by international specialists and a round table with both speakers moderated by an in-house researcher from the field. Talks will be 1h30 research-oriented lectures (with 30 min of a general/large scope introduction on the subject). A lot of interaction is expected during

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Best regards, Raquel Tavares

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+33 6 81 48 65 41

Raquel Tavares <raquel.tavares@cibio.up.pt>

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; Workshops Courses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from ‘blackballed’ addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notification of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as L^AT_EX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category

“Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:” and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formatted) the message will be sent to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformatting is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by \LaTeX do not try to embed \LaTeX or \TeX in your message (or other formats) since my program will strip these from the message.